Scientific Trade Cards

in the Science Museum Collection

W. AND S. JONES,

PHILOSOPHICAL, MATHEMATICAL, AND OPTICAL

INSTRUMENT MAKERS,

AT THE ARCHIMEDES, NO. 30, LOWER HOLBORN, LONDON,

(Nearly opposite Furnival's Inn.)

Frontispiece:
Shop signs in Cheapside
(*by courtesy of Victoria & Albert Museum*)

Science Museum

Scientific Trade Cards

in the Science Museum Collection

by H. R. Calvert M.A.

Her Majesty's Stationery Office London 1971

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Scientific Trade Cards

Definition and history of Trade Cards

Tradesmen's Cards or, more shortly, Trade Cards are essentially advertisements printed on one side of a card or, more usually, a single sheet of paper. They give the name and address of the tradesman, some account of the services and wares he has to offer and perhaps the date of establishment of the business and the name of the predecessor. They vary in shape, and the size may be anything from two or three inches across to a little more than a foot.

The earliest known English trade card was printed shortly before 1630 but they did not become common until about 1720 and the following fifty years saw their heyday. The earliest in the Science Museum's collection is that of Walter Hayes (Plate 25) printed in script type about 1650. Although the earliest ones were plain printed statements, it later became the practice to ornament the cards and to show pictures of some of the things offered for sale. By the middle of the eighteenth century the designs were very elaborate and often included a representation of the shop sign of the premises to help the customer in finding them. Matthew Richardson for example (Plate 42) uses the sign of Sir Isaac Newton's Head and Golden Spectacles. The practice of numbering the premises in London streets began in 1762 and was fairly general by about 1780. Before this time the shops were identified by the signs projecting from the front of them (frontispiece).

Besides being advertisements, given to prospective customers, the trade cards also served as convenient pieces of paper to enter a memorandum or bill of account on the blank back of the card, and this developed into a practice of having an illustrated bill-head with a blank space below (plates 29 and 30). The same block or engraving could also be used to insert an advertisement in a book or newspaper.

The cards continued to be used into the nineteenth century but gradually became less picturesque until they were replaced by the visiting cards used today, which name little more than the firm and the representative making the visit.

Members of all trades used the cards but those listed in this catalogue are almost all of a scientific nature. They are mostly the cards of the makers and sellers of scientific instruments, but also include those of pharmacists, chemists, oculists, photographers and others following pursuits of interest in science.

Use and interest of Scientific Trade Cards

Scientific Trade Cards are useful source material for the history of science and scientific instruments especially if they can be dated. Some cards, such as that of

Thomas Wright (plate 59), bear a date, but there are various means of dating the others. The numbering of premises in the streets, and the introduction of postal districts of London constitute landmarks.

The engraver of the plate puts his signature to it and the date of the engraver may be better known than that of the instrument-maker. The Grainger who signed Bleuler's card (plate 11) was W. Grainger who worked from 1784 to 1793. He illustrated an edition of Bunyan's *Pilgrim's Progress*. James Smith, who engraved Benjamin Cole's card (plate 17) flourished about 1733.

Some of the cards are decorated with the Royal Coat of Arms (eg plates 41, 44, 48 and 61) which can often be dated. In the catalogue the names of the royal, and other, patrons have been included to help with the dating. For instance, John Bennett (plate 10) was instrument-maker to the Duke of Gloucester and Duke of Cumberland. William Henry, son of the Prince of Wales, was created Duke of Gloucester in 1764 and William Augustus, Duke of Cumberland, son of George II, died in 1765, so that the date of this card is determined to within a year (if the information on the card is reliable and as long as Bennett is not claiming to be instrument-maker to somebody already dead).

Once the cards have been dated it is possible to follow the chronological development of the instrument trade, to assess the dates of introduction of the instruments depicted on the cards and to find which maker influenced which. The relative situations of their premises is also material.

A. Syeds & Co claim on their card (plate 48) to have invented the boat's betticle—an early form of the word binnacle, a housing for a ship's compass.

An ornate engraved plate which shows instruments made by James Ayscough (plate 6) also appears in a very slightly amended version (item 19) in which a nautical quadrant replaces two lenses. It looks as if Ayscough at some time decided to add quadrants to his products.

When Joseph Linnell (plate 32) succeeded James Ayscough he took his predecessor's card (plate 7) as it stood and altered only the name.

The illustrations of instruments on Tuttell's card (plate 52) are also used with almost the same lay-out in Fisher Combes's card (plate 19). Tuttell's name has however been removed.

The cards disclose how spectacle-makers hawked their wares from house to house. They left a card or pamphlet describing the spectacles which concluded (item 278): 'Mr Morris will call with a large assortment . . . This bill will be called for'. The circulars used by the different hawkers (items 120, 278, 279, 366) resemble one another more or less closely in their phraseology.

An indication of the international aspect of the scientific instrument trade is afforded by Tuttell's card (plate 52) written in both French and English and by one of Scarlett's (plate 44) written in Dutch, French and English.

Most of the cards in the collection are those of English makers, predominantly from London, but there are also advertisements of businesses in America, Austria, France, Germany, Italy, Spain, Sweden and Switzerland.

Provenance and nature of the Science Museum collection

In the main the material described in this catalogue came from two collections made originally by Mr Thomas H. Court and Mr George H. Gabb respectively. For about 30 years until the Second World War they were well-known collectors of early scientific instruments and of the relevant trade cards as well as advertisements cut from early newspapers and books. Book illustrations sometimes incorporate an undisguised advertisement for the maker of the instrument illustrated (plate 49) or the instruments may be depicted with the maker's name discreetly showing (plate 53). The instruments shown in plate 53 are all numbered and the item was probably used for a priced catalogue of Tuttell's products.

The items in the collection are of varying merit but it has been thought desirable for the sake of completeness to include them all in the catalogue. To indicate the relative importance of the items they have been divided into four categories. Those in category (1) are authentic Trade Cards and Bill-heads. Category (2) contains useful and informative advertisements, many of them newspaper cuttings. Category (3) includes the second-rate material and photographic reproductions of originals not in the collection, and the items in Category (4) are of little or no scientific interest.

Mr Court pasted the items of his collection into scrap albums. Unfortunately he did not usually record the source of an advertisement cutting, but sometimes he wrote a date on it in manuscript. These dates are recorded in the catalogue.

Many instrument-makers stuck their trade cards—or alternatively, specially-made small labels giving their name and address—inside the lids of the instrument boxes. Some of these have been removed from the boxes and transferred to the scrap albums, but as this usually damages the label, many have been left glued to the boxes in their original position. This fact is indicated in the list of reference numbers at the end of the catalogue by giving the number of the box in which the item is to be found.

Other collections of Trade Cards and bibliography

There are several collections of Trade Cards in the British Museum, Print Room, but their subjects range over all trades not only those of scientific interest. The largest of these collections is that made by Sir Ambrose Heal, which includes about 120 cards of scientific interest. He wrote several papers and books about his collection such as: *London Tradesmen's Cards of the XVIII Century: An account of their origin and use* (1925) *and London Furniture Makers from the Restoration to the Victorian Era, 1660–1840* (1953). His books give useful information about trade cards and are richly illustrated with reproductions of them.

Other collections in the British Museum are those of Banks (with more than 4000 items), Fielden and Alexander Franks.

Mr R. S. Whipple wrote an article on John Yarwell's trade card (item 462) in *Annals of Science* in 1951 (Volume 7, page 62).

Arrangement of the catalogue entries

The words used in the catalogue entries have to a large extent been copied from the original card using the same (sometimes unusual) spelling, punctuation and capital letters. (It has not been thought necessary to use *sic*.) The arrangement of the words has however been altered to accord with the following scheme:

Name, predecessor, address, date. (The date being at the right-hand end of the line.)
Trade, patrons, date of establishment of business.

The author's comments on the card are separated by a small space from the quotations taken from the card itself.

At the bottom left of the entry the number in brackets, (1), (2), (3) or (4), indicates the category of the card as defined above. It is followed by size, shape and condition. Sizes are given in inches to the nearest eighth of an inch, vertical dimension followed by horizontal. When the item is other than rectangular (e.g. oval) the largest vertical and horizontal dimensions are given.

At the end of the catalogue there is a list of the Science Museum's reference numbers for the items.

Catalogue

1 **A. Abraham & Co.,** 20, Lord Street, Liverpool. 1855
Opticians and Mathematical Instrument Makers. Established 1817.
(2) $3\frac{1}{2}$ x $4\frac{5}{8}$

2 **J. Abraham,** 7, Bartlett Street, Bath & at His Shop adjoining Mr Thompson's Pump Room, Cheltenham. *c*1837
Optician and Mathematical Instrument Maker to His R.H. the Duke of Gloucester and His Grace the Duke of Wellington.
(1) 3 x $4\frac{1}{2}$

3 **Abraham,** Corner of an Opening into Old Well Lane near Queen's Circus [Cheltenham].
Optician.
(3) $3\frac{1}{8}$ x $3\frac{3}{8}$

4 **Abraham & Dancer,** 13, Cross Street, King Street, Manchester. 1842
Manufacturers of optical, mathematical and philosophical instruments.
(2) $3\frac{1}{2}$ x $4\frac{1}{4}$

5 **Dudley Adams,** Son of George Adams Senior and brother to the late George Adams, 60, Fleet Street, London.
All sorts of Optical, Mathematical & Philosophical instruments constructed.
(1) 16 x $10\frac{1}{2}$ *Plate 1.*

6 **George Adams,** at Tycho Brahe's Head in Fleet Street, London.
Mathematical instrument-maker to His Majesty.
(1) $8\frac{3}{8}$ x 11 *Plate 2.*

7 **George Adams,** at Tycho Brahe's Head, the Corner of Racquet-Court in Fleet-Street, London. 1775
Mathematical Instrument-Maker to His Majesty's Office of Ordnance.
(3) Reproduction $4\frac{1}{4}$ x $6\frac{7}{8}$

8 **George Adams,** at Tycho Brahe's Head in Fleet-Street, London. 1751–60
Azimuth and Steering Compasses Invented By Gowin Knight F.R.S. and made by George Adams Mathematical Instrument Maker to His Royal Highness the Prince of Wales.
(3) Photograph. Oval 3 x $4\frac{1}{8}$

9 **Humphry Adamson** at the House of Jonas Moor Esq. in the Tower makes the instruments described in Samuel Morland's *The description and use of two arithmetick instruments.* 1673
(3) Photograph $5\frac{1}{2}$ x $3\frac{1}{4}$

10 **Robert Akenhead,** at the Bible and Crown upon the Bridge, Newcastle. 1718
Stationer and seller of instruments and spectacles.
(3) $2\frac{1}{2}$ x $2\frac{7}{8}$

11 **J. Alefounder,** Market Street, Faversham. 19th Century.
Chemist & Druggist.
(2) Bill-head. 4 x 7

Elias Allin, *see* John Tomson. Item 399

F. B. Anderson, *see* Stebbing & Wood. Item 380

12 **J. Andrews & Sons,** No. 4 Burlington Arcade, Piccadilly & at No. 24 Anderson's Building, City Road. 1820

An advertisement for an exhibition of fancy glass working, spinning, blowing, variegating, twisting & linking glass.
(3) $8\frac{7}{8}$ x $7\frac{3}{8}$ *Plate 3*

13 **Alfred Apps,** 433, Strand, London, W.C. near Charing X Railway Station.
Optical, Mathematical & Philosophical Intrument Maker.
(1) $2\frac{5}{8}$ x $3\frac{3}{4}$

14 **D'Artaria et Compagnie,** Rûe Kohlmarkt No. 1151, Vienna.

Map shop (French language).
(3) $2\frac{1}{8}$ x $3\frac{1}{2}$

15 **Aslin,** 15, Lower Smith Street, Northampton Square, Clerkenwell.
Shagreen & morocco case maker.
(2) $1\frac{7}{8}$ x 3

16 **Aubert & Linton,** 252, Regent Street, near Oxford St. W. London.
Chronometer, Watch and Clock makers from Geneva, established 1825. Sole representatives of the late M. Aubert of Regent Street. Correspondents to Raingo Frères, Paris & to H. Capt, Geneva.
(1) 3 x $4\frac{1}{2}$

17 **(Ayscough)** *c*1740

There is no wording on this illustration of a pair of spectacles. Mr. Court attributed it to Ayscough and dated it tentatively as 1740. He drew attention to the spring in the bridge of the spectacles, the earliest known.
(3) $2\frac{1}{2}$ x $3\frac{7}{8}$ *Plate 4*

18 **James Ayscough,** at the Great Golden Spectacles in Ludgate-Street, near St Paul's, London, (Removed from Sir Isaac Newton's Head in the same street.)
Optician.
(1) $13\frac{1}{2}$ x 8 *Plate 6.*

19 **(James Ayscough)**

The pictorial part of item 18 differing slightly by having a quadrant in place of two lenses.
(1) 6 x $7\frac{1}{4}$

20 **James Ayscough**

The text of item 18 without the picture and with a few variations and an additional footnote about the quality of optical glass.
(1) 7 x $8\frac{3}{8}$

21 **James Ayscough,** at the Great Golden Spectacles and Quadrant, No. 33, in Ludgate-Street, near St. Paul's, London, (The Original Shop for superfine Crown-Glass Spectacles). Optician.

The card is similar to that of Joseph Linnell.
(1) 12 x $7\frac{1}{4}$ *Plate 7*

22 **James Ayscough** at the Great Golden Spectacles, in Ludgate Street, London.

Oval design for use in lid of instrument box.
(1) $3\frac{1}{4}$ x $3\frac{5}{8}$

23 **James Ayscough** at the Great Golden Spectacles, Ludgate Street, London. 1751

An advertisement mainly for the supplying and fitting of spectacles.
(2) $6\frac{5}{8}$ x 4

24 **James Ayscough,** at the Golden Spectacles and Quadrant, in Ludgate-Street, London.

Advertisement with similar wording to item 23 with additions.
(2) $7\frac{5}{8}$ x $4\frac{5}{8}$ (printed on both sides)

25 **James Ayscough,** Ludgate-Street, London. 1754

Description of a telescope adapted to use at Sea, invented by James Ayscough. (In English, French & Spanish).
(3) Photograph. $12\frac{3}{8}$ x 7

James Ayscough, *see* James Mann & James Ayscough, 2 items, 253 & 254.

26 **Bancks,** No. 440, Strand, London. (cf. item 27). *c*1800
Makes & sells all sorts of Mathematical, Optical, & Philosophical Instruments on the most Improved Principles and Lowest Terms. Wholesale & Retail.

Oval design for use in lid of instrument box.
(1) Irregular octagon. $2\frac{3}{8} \times 3\frac{3}{8}$

Bancks, *see* Kaleidoscope sellers, item 223.

27 **Banks,** No. 441 Strand, London (cf. item 26)

Small oval cartouche in lid of instrument box.
(1) Oval $\frac{5}{8} \times 1$

28 **Thomas Barnett,** (No. 61), Great Tower-Street, London.
Optical, Mathematical and Philosophical Instrument-Maker to His Majesty's Boards of Customs and Excise.
(1) 8 x 7. *Plate 8*

29 **Thomas Barnett,** No. 61, Great Tower Street, London.
Optical, Mathematical & Philosophical, Instrument Maker. To His Majesty's Hon^{ble} Boards of Customs & Excise (cf. item 30).
(1) $2\frac{1}{2} \times 3\frac{5}{8}$

30 **Thomas Barnett,** No. 4, Mores Yard, Old Fish Street, near Doctors Commons Makes and sells all kinds of Barometers, Thermometers, Hygrometers etc.

The decorative border is like that of item 29 but the address and wording are different.
(1) $2\frac{1}{2} \times 3\frac{5}{8}$

31 **W. Barrow & W. Lovelace,** at the Golden-Lion in Saint Martins Le-Grand, London.

Wheels and tools for watch-makers, also artificial magnets. Wm. Barrow removed to Woolton near Prescott, Lancashire, 1756.
(1) $4\frac{7}{8} \times 6\frac{7}{8}$

32 **Rich^{d} Barry,** No. 106, Minories, London. Navigational instruments and maps.
(1) $3\frac{1}{8} \times 4\frac{5}{8}$

33 **Bastick & Driver,** Late Foreman & Apprentice to Mr. Vandome, Leadenhall Street, Scale Makers. No. 2 Holywell Row, Worship St., Near Finsbury Square.
(1) Corners cut from rectangle, 2 x $3\frac{1}{2}$.

34 **R. B. Bate,** 21, Poultry, London.
Optician, hydrometer, saccharometer, mathematical & philosophical instrument maker to her Majesty's honourable Boards of Excise and Customs.

Mentions agents for Admiralty charts: Messrs. Dawson and Melling, Liverpool; R. Neill, Belfast; J. Braham, Bristol; T. Bennett, Cork; Spears & Co., Dublin; W. C. Cox, Devonport; and G. Stebbing, Portsmouth.
(2) $5\frac{1}{2} \times 2\frac{7}{8}$

35 **R. B. Bate,** Nos. 20 and 21, Poultry, London.
Agent for the sale of Admiralty Charts &c. Hydrometer & saccharometer maker to the Excise & Customs.

Street view showing premises of 'Bate, Optician'.
(2) $3 \times 5\frac{3}{8}$

R. B. Bate, *see* Kaleidoscope sellers, item 223

36 **A. Bazzoni,** No. 23, Kingsgate Street, Holborn.
Maker of dolls.
(4) $8\frac{1}{4} \times 6\frac{1}{2}$

37 **Thomas Beach,** No. 11 in Digbeth, Birmingham.
Scale maker.
(1) $2\frac{1}{2} \times 6$

38 **John Beale,** No. 76, Maid Lane near the Borough.
Mathematical, Optical and Philosophical Instrument Maker.
(1) $2\frac{1}{2}$ x $3\frac{5}{8}$

39 **Mr Beard,** Portrait Gallery, Ducie Place, Manchester, at the back of the Exchange. Also 17, Wharf Road, City Road, London. 1842.
Photographer.
(3) $3\frac{7}{8}$ x $3\frac{5}{8}$

40 **Beaufoy & Co.,** South Lambeth, London. Makers of Chloride of Soda according to the the formula of M. Labarraque of Paris.
A label for a quart bottle.
(3) $6\frac{1}{4}$ x $10\frac{1}{2}$

C. Beilby, *see* Kaleidoscope sellers. item 223

41 **John Bennett** at the Globe in Crown Court, between St. Ann's Soho & Golden Square, London.
Mathematical, Philosophical and Optical Instruments.
(1) $11\frac{1}{4}$ x $8\frac{1}{8}$ *Plate 9*

42 **John Bennett,** At the Globe in Crown Court, between St. Ann's Soho and Golden Square, London.
Mathematical, Philosophical and Optical, Instruments.
(1) $6\frac{3}{8}$ x $4\frac{1}{2}$

43 **John Bennett,** At the Globe in Crown Court, St. Ann's Soho, London.
Mathematical Philosophical and Optical Instruments.
Instrument maker to Their Royal Highnesses the Duke of Gloucester and Duke of Cumberland. Also the New Nautical Almanack by Authority of ye Commissioners of Longitude.
(1) $8\frac{3}{4}$ x $6\frac{1}{8}$ *Plate 10*

44 **J. F. Bennett & Co.,** Ellipses Works, Wright's Hill, London Rd, Sheffield; formerly 35, Cemetery Road, Sheffield. 1887
A two page pamphlet on the 'Marvel' Geometric Compass patented and made by J. F. Bennett.
(2) $10\frac{1}{4}$ x 8

45 **Fr. J. Berg,** Stockholm, Kammakaregatan, 19. (hörnet af Drottninggatan) Sweden.
Mathematical and Geodetical Instruments. Established 1850
(1) 3 x 5 *Plate 5*

Berge, *see* Kaleidoscope sellers, item 223

46 **R. Bernard,** 14, Lebanon St., Walworth, S.E. *c*1860
Writer & Divider, Thermometers & Barometers.
Hand-written visiting card.
(1) 2 x 3

47 **Bestall,** 1, Victoria Cottages, Royal Road, Kennington Park, near Beresford St.
Maker of polarizing apparatus, objects &c. 1870
Painter of Diagrams for the Magic Lantern, &c.
(1) $1\frac{3}{8}$ x 3

48 **N. Bion,** au Quart de Cercle Géométrique, sur le quay de l'Orloge du Palais, à Paris. Ingenieur du Roy pour les Instruments de Mathematique.
Photograph of an original in the Cluny Mus., Paris.
(3) Photograph $6\frac{1}{8}$ x 7

Blackburn, *see* Moffett & Blackburn, item 274

49 **H. G. Blair & Co.,** 95, Bute Street, Cardiff. 1860
Chronometer makers, opticians & compass adjusters.
From Bristol, est-1829
(1) 3 x $4\frac{1}{2}$

50 **Bleterie,** rue des francs bourgeois, porte St. Michel à Paris.

Bows & arrows & firearms.
(4) $3\frac{1}{8}$ x 4

51 **Bleuler,** 27, Ludgate Street, London.
Optical, mathematical and philosophical instrument maker.
(1) $3\frac{3}{8}$ x $5\frac{1}{4}$

52 **Bleuler,** No. 27, Ludgate Street, London.
Optical, Mathematical & Philosophical Intrument Maker.

Part of the illustration on this card was used by Yeates & Son (item 467) & Field (item 148)
(1) $3\frac{1}{4}$ x $4\frac{3}{4}$ *Plate 11*

53 **Bleuler,** 27, Ludgate Street, London.
Optician
(1) $3\frac{1}{4}$ x 5 *Plate 12*

54 **John Bleuler,** No. 27, Ludgate Street, London. 1790
Optician.

Oval design for use in instrument box.
(1) $1\frac{7}{8}$ x $2\frac{5}{8}$

55 **John Bleuler** (Successor to the late Mr. Whitford) No. 27, Ludgate Street, London.
Optician.

Oval design for instrument box.
(1) $1\frac{3}{4}$ x $2\frac{3}{8}$ (torn & defaced)

56 **Blunt,** No. 22, Cornhill, opposite the Royal Exchange.
Optician, & Mathematical Instrument Maker, to His Majesty.

Circular design for instrument box.
(1) $2\frac{3}{8}$ x $2\frac{1}{4}$

Blunt, *see* Kaleidoscope sellers, item 223

57 **Felice Bosiz** in Milano nella Contr. di S. Radegonda N.986
Ointment.
(4) $2\frac{3}{8}$ x $3\frac{1}{2}$

58 **George Bradford,** No. 99, Minories, near Tower Hill, London.
Real Maker of Mathematical Instruments. Flags, sextants & telescopes.
(1) $2\frac{3}{8}$ x $3\frac{1}{2}$

59 **Timothy Brandreth and George Willdey,** late Servants to Mr. Yarwell and Mr. Stirrop, at the Archimedes and Globe in Ludgate-Street, the corner next St. Paul's Church. 1706
. . . for some years have made the best sort of Spectacles, that They, and Mr. Marshall, and the rest of the Trade, have sold in their Shops.

cf. items 445 & 446
Photograph of card for Optical and other instruments.
(3) $7\frac{5}{8}$ x 5

60 **Timothy Brandreth** and **George Willdey** at the Archimedes and Globe in Ludgate-street, the corner next St. Paul's. 1706

Similar pictorial heading to item 59 but some variations in the text.
Photograph of a card. *cf.* items 445 & 446.
(3) 8 x $5\frac{3}{4}$

61 **William Brind** (from Mr Read's) at the Hand & Scales in Carey Lane in Foster Lane, Cheapside, London.
Scale Maker.
(1) $6\frac{1}{2}$ x $4\frac{1}{2}$ *Plate 13*

Brookes, *see* Johnston, Brookes ,Hector & Davidson, item 211

62 **James Brown,** Glasgow.
Inventor and maker of Hydrostatical Glass Bubbles for Proving Spirits.

A circular calibration chart for specific gravity.
(3) 3 x 4

63 **John Browne,** at the Sphear & Sun Diall in the Great Minories neare Aldgate London. 1671

An illustration of two sectors.
(2) 7 x $10\frac{1}{2}$

64 **John Browne,** near Wapping old Stairs London.
Compass Maker and Ship Chandler.
(1) $7\frac{5}{8}$ x 5 *Plate 14*

65 **John Browning,** City: 111, Minories, E. Factory: 6, Vine Street, E.C. 1870.
Optical & Physical Instrument Maker to Her Majesty's Government, The Royal Observatory, Kew Observatory &c.
Prize medal 1862. Established 100 years.
(1) $2\frac{3}{8}$ x $3\frac{1}{2}$

Browning, *see* Spencer, Browning & Co. items 369 to 374

66 **J. Bullwinkle,** 61, Leadenhall Street.
Book-binder, Stationer & Gilder.
(4) $2\frac{3}{8}$ x $3\frac{1}{2}$

67 **Byrne & Bishop,** No. 8, Butcher-Row, St. George's Market, St. George's Fields, Boro' Southwark London.
Makers of Machines for Publicans.
(4) $5\frac{1}{4}$ x $3\frac{1}{8}$

68 **John Cail,** 61, Pilgrim Street, and 45, Quayside, Newcastle. 1844
Mathematical and Philosophical Instrument Maker, Optician, &c.
(2) $1\frac{7}{8}$ x $4\frac{1}{2}$

69 **Cameron,** 54, South Castle Street, near the Customs, Liverpool.
Chronometer & Watch Maker.
(1) $2\frac{7}{8}$ x $3\frac{1}{4}$ (damaged)

70 **Gio. Batta Campi,** Genoa. *c*1750
Optician.
Photograph of an entry in a Swiss sale catalogue.
(3) Photograph $6\frac{1}{2}$ x $6\frac{1}{4}$

H. Capt, *see* Aubert & Linton, item 16

71 **Philip Carpenter,** 24, Regent Street, 4 doors from Piccadilly.
Optician.
Advertises a display of objects under the microscope.
(2) $10\frac{7}{8}$ x $7\frac{7}{8}$ *Plate 15*

Philip Carpenter, Birmingham, *see* Kaleidoscope sellers, item 223.

72 **Carpenter & Westley,** No. 111, New Street, Birmingham (& Carpenter, 24, Regent St. London.)
Opticians.
(1) 2 x 3

73 **Carpenter & Westley,** 24, Regent Street, London, S.W.
Opticians.
A part cut from a larger card shows an engraving of their premises.
(1) Cut to $2\frac{7}{8}$ x $1\frac{7}{8}$

74 **Carpenter & Westley,** 24, Regent Street, London.
Opticians.
Advertisement for a magic-lantern entertainment.
(3) $8\frac{1}{4}$ x $5\frac{1}{4}$ Folded pamphlet, 4 pages.

75 **Carpenter & Westley.**
Programme for a magic-lantern entertainment held at Windsor Castle, April 7th, 1865.
(3) $8\frac{1}{8}$ x $5\frac{1}{4}$ Folded programme, 3 pages.

76 **Isaac Carver,** at the Sign of the Globe-Dial in Horslydown.
Mathematical instrument maker.
Cutting from *Stereometry* by Thos. Everard, 3rd edn. 1696
(2) $2\frac{5}{8}$ x $3\frac{1}{8}$

77 **Jacob Carver,** Son to Isaac Carver, at the Atlas and Quadrant near Cherry-Garden Stairs, on Rotherhith-wall, London.

Makes 'the Sliding Rule mention'd in this Book, and all sorts of Gauging Instruments, useful and proper for His Majesty's Officers of the Customs'.

Below the above entry on the same paper is the advertisement of Tho. Cook, by the Excise Office in the Old Jury. Maker of Gauging and Mathematical Instruments.

On the reverse is the advertisement of John Rowley, q.v. item 327.
(2) $3\frac{1}{8} \times 3\frac{1}{2}$

78 **Cary & Co.** [Henry Porter], 7, Pall Mall, London, S.W. two doors east from Waterloo Place. Late of 181, Strand, W.C.
Opticians & Scientific Instrument Makers to the Admiralty, &c. Opticians to the Royal London Ophthalmic Hospital. Established 1765.
(1) $2\frac{3}{8} \times 3\frac{5}{8}$

79 **Cary, Porter, Ltd.,** 7, Pall Mall, London, S.W. two doors east from Waterloo Place, Telephone No. 6736 Gerrard. Late of 181, Strand, W.C. (*See* item 80.)
Opticians & Scientific Instrument Makers to the Admiralty &c. Established 1765.
(1) $2\frac{1}{2} \times 3\frac{1}{2}$

80 **Cary, Porter, Ltd.,** 7, Pall Mall, London, S.W.

This card differs from item 79 in the telephone number which is now No. 1189 Regent, and there is an addition:
'Works: Finsbury Park, N.'
(1) $2\frac{1}{2} \times 3\frac{3}{4}$

81 **Casket Portrait Comp.,** 40, Charing Cross (Near the Admiralty) 1864

Special type of photograph. The ten guinea Crystal Cube statuette miniature. Mentions Swain's patent.
(3) $2\frac{1}{4} \times 4\frac{3}{8}$

82 **C. H. Chadburn,** 71, Lord Street, Liverpool and Albion Works, Nursery Street, Sheffield. 1855

Optician and Instrument Maker to H.R.H. Prince Albert. Honourable mention at Exhibition, 1851.
(2) $3 \times 4\frac{1}{8}$

83 **Chadburn Brothers,** Albion Works, Nursery Street, Sheffield. Branch Establishment, 71, Lord Street, Liverpool.
Optical Mathematical and Philosophical Instrument Makers to H.R.H. Prince Albert.
(1) $13\frac{3}{8} \times 16\frac{3}{8}$ *Plate 16*

84 **Chadburn Brothers.,** Albion Works, Nursery-Street, Sheffield. 1842
Manufacturers of Electrical, Electro-Magnetic, and all kinds of Philosophical Instruments and Apparatus. Opticians.
(2) $2\frac{1}{4} \times 3\frac{5}{8}$

85 **Chevalier,** 158, Palais Royal, Paris.
Optician.
'Ancienne Maison Chevalier Ingénieur de père en fils depuis plus d'un siècle. Le Docteur Arthur Chevalier, Opticien, Officier d'Académie, Seul Successeur, Médaille d'argent Exposition de 1878.'

Lozenge shaped label for instrument box.
(1) $1\frac{5}{8} \times 2\frac{1}{4}$

86 **Charles Chevalier,** son and sole successor of Vincent Chevalier. Palais Royal No. 163, Factory: Cour des Fontaines No. 1 Bis. After 1844

Ingénieur Opticien.

Awards and medals ranging from 1827 to 1844 are mentioned.
(1) $2\frac{5}{8} \times 3\frac{5}{8}$

87 **Charles Chevalier,** Palais-Royal, 158, Fabrique et Magasins,
cour des Fontaines, 1bis.
Ingénieur-constructeur d'instruments pour les sciences.
(2) $5\frac{1}{2} \times 3\frac{3}{8}$

Vincent Chevalier, *see* Richebourg, items 318 & 319

88 **P. Clark,** late Alexander Clark & Co., 7, Nelson Terrace, City Road, nearly opposite Sidney Street, London.
Engineer and blowing-machine manufacturer.
(3) $8\frac{3}{4}$ x $5\frac{1}{2}$ Two copies.

89 **E. M. Clarke,** 428, Strand, London.
Optician and Magnetician.
Three different diagrams on one engraving, intended to be cut up to be stuck in instrument boxes.
(1) Engraved plate $3\frac{7}{8}$ x $2\frac{5}{8}$ Three copies.

90 **B. Cole,** successor to Mr Wright. 1763
Advertisement for orreries cut from the 9th edition of Joseph Harris's *The Description and Use of the Globes and the Orrery.* Names four of Mr Wright's customers.
(2) $5\frac{7}{8}$ x $3\frac{3}{8}$

91 **Benja^n^ Cole** at ye Royal Exchange or at his House in Ball Alley, going out of George-Yard, into Lombard-Street.
Maker of the Grand Orrery and all other Mathematical Instruments.
An engraving of the Grand Orrery.
See item 92.
(1) $7\frac{1}{2}$ x $5\frac{1}{8}$ *Plate 17*

92 **Benjamin Cole,** At the Orrery next the Globe Tavern in Fleet Street, London.
Mathematical and Optical Instruments of all Sorts.
The card shows the Grand Orrery almost exactly as in item 91 with the addition of the words: 'The Orrery Made by Cole and Son' which appear partly above and partly below the ecliptic ring.
(1) $7\frac{1}{2}$ x $5\frac{3}{8}$

93 **Collot Frères,** Succ^rs^ de Mr. Hirbect, 41 Rue de l'Ecole de Médecine, 41, formerly Rue des Mauvais Garçons, Paris.
Scale maker.
(1) $2\frac{1}{8}$ x $3\frac{3}{4}$

94 **Colombi à Brest et à St. Malo.**
Fabrique d'Instrumens d'Optique de Mathématiques &^a^
Opticien de la Marine de S.A. M^gr^. Le Prince de Joinville.
Mentions the exhibitions of 1844 & 1849.
(1) $3\frac{1}{8}$ x $5\frac{1}{4}$ *Plate 18*

95 **Fisher Combes** at ye Mariner & Globe in Broad Street, near ye Angel & Crown Tavern, behind ye Royal Exchange, London. Maketh and Selleth all Sorts of Mathematical Instruments.
The instruments depicted are very similar to those shown in item 407.
(1) $4\frac{1}{2}$ x $6\frac{5}{8}$ *Plate 19*

96 **Oliver Combs,** (from Mr Scarlet) At the Spectacles ye Second House from Essex Street near Temple Bar, London.
Optician.
(1) $8\frac{1}{2}$ x $6\frac{3}{4}$ *Plate 20*

97 Compass variation.
Paper Volvelle. Two compass cards, one rotating above the other.
(4) $6\frac{3}{4}$ x $5\frac{7}{8}$

Tho. Cook, *see* Jacob Carver, item 77

98 **Andrew Cooke,** at the King's-Arms, Holborn-Hill, opposite the Dog's-Head in the Pottage-Pot, near Hatton-Garden, the Sign of the Original Three Flying-Fishes, over the Door, with the Word Cooke upon it. His House No. 6, in Union-Court, where he has lived near 30 Years.
Bugg destroyer
(4) 4 x $6\frac{1}{2}$

99 **William Court & Marmaduke Hodgeson** at the Mariner and Anchor on Little-Tower Hill, London. 1690
Seller of books and Mathematical Instruments & teacher of mathematics.
(2) $4\frac{1}{8}$ x $3\frac{1}{8}$

100 **James Cox,** No. 51, Banner Street, Saint Luke's, London. From No. 5, Barbican.
Working Optician. Manufacturer of Optical, Mathematical, and Philosophical Instruments.
(1) $2\frac{3}{8}$ x $3\frac{1}{2}$

101 **John Cuff.** At the Sign of the Reflecting Microscope and Spectacles, against Serjeant's-Inn Gate in Fleet-Street.
Optician, Spectacle, and Microscope Maker.
(1) $9\frac{1}{2}$ x $6\frac{5}{8}$ *Plate 21*

102 **John Cuff.** At the Reflceting Microscope and Spectacles, against Serjeants Inn Gate Fleet Street, London. 175–
A Bill-head with the first three figures of the date.
(1) $2\frac{5}{8}$ x $7\frac{3}{8}$

103 **John Cuff.** Opposite to Serjeants-Inn, Fleet Street, London.
Optician. Microscope maker.
Instructions for the use of the reflecting microscope (so called because of the concave mirror used to illuminate a transparent object).
(2) $15\frac{1}{4}$ x $9\frac{5}{8}$

104 **John Cuff,** Opposite Serjeant's-Inn Gate, in Fleet-street, London.
Description of the Gregorian Reflecting Telescope as made and Sold by John Cuff.
(2) 11 x 6

105 **E. Culpeper.** At the Old Mathematical-Shop, the Cross-Daggers in Middle-Moore-Fields.
Mathematical and optical instruments made and sold. See item 106.
(3) Photograph, $6\frac{7}{8}$ x 5

106 **E. Culpeper.** This is similar to item 105 without the accompanying text. The name, E. Culpeper, appears on an illustration of a universal ring dial. The engraver's signature reads: 'E. Culpeper Sculp. London'.
(1) $4\frac{1}{2}$ x 5 Two copies. *Plate 22*

107 **Edmund Culpeper,** at the Cross-Daggers in Moor-Fields. 1710
Maker of Mathematical and Optical Instruments.
(2) $4\frac{1}{4}$ x 5

108 **Edmund Culpeper** at the Black and White House, the Sign of the Cross-Daggers, in Middle-Morefields, London. *c*1720
Maker of mathematical, optical and navigational instruments.
(2) 3 x 5 (stained and damaged)

109 **Ed. Culpeper** at the Old Mathematical Shop, The Cross-Daggers in Moore-Fields.
A small booklet entitled *The Discription and Use of a Set of Portable Microscopes Made and Sold by Ed. Culpeper.*
Describes Wilson's screw-barrel microscope.
(3) Booklet 16 pages $3\frac{1}{2}$ x $2\frac{1}{8}$, with folding plate $4\frac{3}{8}$ x $7\frac{3}{4}$

110 **Richard Cushee** at the Globe and Sun between St. Dunstans Church & Chancery Lane and
Tho. Wright Instrument-maker to His Majesty at the Orrery and Globe near Salisbury Court Fleetstreet London. 1768
Globe and map makers and Surveyors.
Plate illustrating a terrestrial and a celestial globe from Joseph Harris's, *The Description and use of the Globes and the Orrery.* 10th edn.
(2) $6\frac{1}{8}$ x $7\frac{1}{4}$

111 **Nathaniel Cutler** near Wapping-Dock. 1631
Teacher of mathematics and seller of mathematical and navigational instruments and books, maps and stationery.
(2) $4\frac{1}{8}$ x $6\frac{3}{8}$

112 **J. P. Cutts,** Sheffield
Manufacturer, of Spectacles, Telescopes, Opera-Glasses &c.

On the reverse is the card of Cutts & Camm, Manufacturers of Table Knives.
(1) $2\frac{1}{2}$ x $3\frac{1}{2}$

113 **J. P. Cutts,** Division Street, Sheffield.
Manufacturer of Mathematical and Nautical Instruments, Barometers, Thermometers &c. By special appointment Optician to Her Majesty.
(1) $3\frac{1}{8}$ x $6\frac{1}{8}$

114 **J. B. Dancer,** Manchester.
Optician. Inventor of Microscopic Photographs, manufacturer of all kinds of Optical and Mathematical Instruments. By appointment to Her Majesty's Commissioners. Prize Medal 1862.
(1) $1\frac{3}{4}$ x $4\frac{1}{8}$

Dancer, *see* Abraham & Dancer, item 4.

115 **Steph. Davenport,** against the Distillers in High-Holbourn, near Drury-Lane, London. Makes and sells Machines and Instruments for hydraulics, surgery and experimental philosophy.
(3) Photograph 7 x $5\frac{1}{2}$

Davidson, *see* Johnston, Brookes, Hector & Davidson. Item 211

116 **Messrs. Davis,** 65, Bold-street, Liverpool, and 101, High-street, Cheltenham. 1842
Manufacturers of Mathematical, Optical, and Philosophical Instruments.

This advertisement appears on the reverse of that of Mr Beard, item 39.
(2) $3\frac{7}{8}$ x $3\frac{5}{8}$

117 **Davis' Brothers,** No. 33, New Bond Street, London. Manufactory—209 High Holborn. 1820
Opticians and Mathematical Instrument makers.

Printed on pink paper, wording as item 118.
(2) $2\frac{5}{8}$ x $4\frac{1}{2}$

118 **Davis' Brothers,** No. 33, New Bond Street, London. Manufactory—209 High Holborn. 1820
Opticians and Mathematical Instrument makers.

Printed on pink paper, wording as item 117 but printed in a cursive script.
(2) $3\frac{7}{8}$ x $4\frac{3}{8}$

119 **Davis, (brothers),** 33, New Bond Street, London.
Opticians and Mathematical Instrument makers to H.R.H. Prince Albert.

Picture of a walking-stick-telescope highly approved of by His Royal Highness, And most of the Nobility and Gentry.
(2) $3\frac{3}{4}$ x $3\frac{1}{2}$

120 **A. Davis,** 29, Warner-street, Portland-place, New Kent road, London.
Spectacle maker By Royal Authority.

A pamphlet giving a description of the wares. At the end : Licensed Hawker, No. 500. This circular will be called for by A.D. who will have an assortment for inspection.
(2) $7\frac{1}{2}$ x $4\frac{3}{4}$ folded.

121 **I. Deck,** No. 9, Kings Parade, Cambridge.
Practical chemist and mineralogist.
(1) $2\frac{3}{8}$ x $3\frac{5}{8}$

122 **I. Deck,** 6, Victoria Terrace, Leamington.
Dispensing & Practical Chemist.
(2) Folded pamphlet, 4 pages, $7\frac{1}{8}$ x $4\frac{3}{8}$

123 **Dent.**

Directions for using Dents Patent Liquid Compass.
(3) 4 x 5 (poor condition)

124 **Edward Derby.** Successor to the Ingenious Mr Joseph Hickman. Union Court facing St. Andrews Church, Holborn, London.
Philosophical Instrument Maker.
(1) $3\frac{1}{2}$ x 5

125 **Mr Dillon** in Long-Acre, next Door to the White-Hart. 1722
Optician.

Cutting from Memoirs of Literature, Vol .4.
(2) $2\frac{1}{2}$ x 4

126 **C. W. Dixey.** No. 3, New Bond Street, London.
Optician & Mathematical Instrument Maker to Her Majesty; the King and Queen of Hanover; their Royal Highnesses the Dukes of Sussex and Cambridge; the Princesses Augusta and Sophia; the Duchesses of Kent, Cambridge, and Gloucester; the King of Belgium &c &c. Established 1777
(2) $8\frac{5}{8}$ x 7

127 **C. W. Dixey.** No. 3, New Bond Street, London. May 9th 1840
Optician, Mathematical & Philosophical Instrument Maker.

Bill head with bill for supplying opera glasses, and repairing other glasses.
(1) $5\frac{1}{8}$ x $8\frac{1}{4}$

128 **Dixey,** 21, King's Road, Brighton 1860
Spectacle Maker and Optician.
(2) 6 x $4\frac{1}{4}$

129 **L. Dixey** (Son of Mr G. Dixey, Optician to the Royal Family, Bond Street, London) 62 King's Road, Brighton. 1843
(2) $3\frac{1}{2}$ x $3\frac{3}{4}$

130 **G. Dollond,** 59, St. Paul's Church Yard, London. 183–
Optician to Her Majesty, the Honble. Board of Customs, &c. &c. Manufacturer of all kinds of Optical, Mathematical, Philosophical & Astronomical Instruments.

A bill head.
(1) $3\frac{3}{4}$ x $8\frac{1}{4}$

131 **P. Dollond,** near Exeter Exchange in the Strand, London. 16 May 1763.
Optician to His Majesty and to His Royal Highness the Duke of York.

Bill head and bill for telescope, camera obscura, microscope etc.
(3) Reduced photograph. $2\frac{7}{8}$ x 4. Two copies.

P. & G. Dollond, *see* Kaleidoscope sellers, item 223

132 **W. Dowling,** West Gateway of Lincoln's-Inn, Serle Street, Lincoln's-Inn-Fields, London. 1829
Working optician, Optical, Mathematical & Philosophical Instruments.
(1) $9\frac{1}{4}$ x $7\frac{1}{4}$ *Plate 23*

133 **Dring & Fage,** 20, Tooley Street, London.
Opticians, Mathematical & Philosophical Instrument Manufacturers. Upwards of half century hydrometer makers to the Honble. Board of Excise of United Kingdom.
(1) $3\frac{1}{4}$ x $4\frac{3}{8}$ Two copies.

134. **Dring & Fage,** 20, Tooley Street, Southwark, London.
Hydrometer, Saccharometer, & Gauging Inst^{t}. Manufacturers, Mathematical Philosophical & Optical Instruments.Upw^{d} ^{s}. of 50 Years Hydrometer Makers To His Majesty's Honble. Board of Excise.

'Sikes's Improved Hydrometer' appears prominently at the top of the card.
(1) $3\frac{1}{8}$ x $4\frac{1}{2}$

135 **Dring & Fage,** 19 & 20, Tooley Street, London Bridge.
Makers of Sikes's Hydrometer, Saccharometer & Gauging Instruments to Her Majesty's Revenue of the United Kingdom & Colonies, the Honorable Victualling Board for H.M. Navy.
(1) $3\frac{1}{8}$ x $4\frac{1}{2}$

136 **Dring & Fage,** 19 & 20, Tooley Street, London.
Manufacturers of Sextants, Quadrants, Compasses, Telescopes & every description of Nautical Instruments. Map & Chart Agents.
(1) $2\frac{1}{2}$ x $3\frac{3}{4}$ Three copies. (In the copy,

136 continued
III 110c, the address is 20, Tooley Street, but the plate was amended for the other copies to become 19 & 20 Tooley Street.)

137 **Dring & Fage,** 19 & 20, Tooley Street, London. 18...
Blank calibration card for a saccharometer.
(3) $2\frac{1}{2}$ x 4

138 **Dring & Fage,** 145, Strand W.C.
This card is similar to item 135 but the old address is crossed out and the words 'Removed to 145, Strand, W.C.' are overprinted in red.
(1) 3 x $4\frac{1}{2}$

139 **Dring & Fage,** 56, Stamford St., London, S.E. Telephone No. 11323 Central. Removed from 145, Strand.
Hydrometer, saccharometer, thermometer, scientific & gauging instrument makers to H.M. Customs, Inland Revenue, Colonial Governments &c &c.
(1) $3\frac{1}{8}$ x $4\frac{7}{8}$

140 **Dring & Fage,** 56, Stamford Street, London S.E.
This card is exactly similar to item 139 but the engraved plate has been altered to insert the word Opticians prominently between the Royal Coat of Arms and the list of instruments made.
(1) $3\frac{1}{8}$ x $4\frac{5}{8}$

141 **J. Duboscq,** Paris, 21, rue de l'Odéon, au fond de la cour.
Instruments de précision. Appareils d'optique moderne.
A note extending to both sides of the sheet describes instruments for projecting and demonstrating to a large audience.
(2) $5\frac{5}{8}$ x $3\frac{3}{8}$

142 **J. Duboscq,** Paris, 21, rue de l'Odéon, au fond de la cour.
Advertisement listing the modern optical apparatus available for sale.
(2) $5\frac{1}{2}$ x $3\frac{1}{4}$

143 **John Dunn,** Sign of the Gilded Globe 50, North Hanover Street, Edinburgh.
Optican, Mathematical & Philosophical Instrument maker.
(1) $2\frac{1}{2}$ x $3\frac{5}{8}$

Egerton Smith & Co., *see* Kaleidoscope sellers, item 223

144 **Elliott, Brothers,** successors to Watkins & Hill, No. 30, Strand, London, from 56, Strand, and 5, Charing Cross. *c*1854
Opticians &c.
(1) $2\frac{7}{8}$ x $4\frac{1}{2}$

145 **Elliott, Brothers,** 449, Strand, London.
Opticians to the Government.
(1) $1\frac{3}{4}$ x $2\frac{7}{8}$

146 **George Elliott,** (No. 19) Terrace, Tottenham-Court-Road, London; From No. 32, Rathbone Place. *c*1810
Patent water-pumping engines.
Capacity and price listed on back of card.
(2) $4\frac{5}{8}$ x 3

147 **T. Espin,** South, Lincolnshire.
Teacher of the Mathematics.
(1) $3\frac{1}{8}$ x $4\frac{5}{8}$

148 **Field,** late apprentice to Mr Nairne, No. 74 Cornhill, London.
Optical, Mathematical, & Philosophical Instrument Maker.
This card has the same illustration as that of Bleuler, item 52.
(1) $3\frac{1}{8}$ x $4\frac{3}{4}$ (bottom right hand corner missing).

149 **Field.**
Enlarged photograph of an undamaged example of item 148.
(3) Photograph. $4\frac{1}{2}$ x $6\frac{3}{4}$

Samuell Foster, *see* Antonius Thompson, item 396

150 **John Fowler,** at the Globe in Sweeting's-Alley by the Royal-Exchange, London. 1738
Instruments for Gauging, Surveying, Dialling and Mathematicks. Mathematical Books Sold.
(2) $2\frac{1}{2}$ x $3\frac{5}{8}$

151 **Franklin & Co.** No. 20 St. Anns Sqr. Manchester.
Patent Lever Watch Makers Jewellers Opticians Philosophical & Mathematical Instrument Manufacturers.
(1) $1\frac{3}{4}$ x $1\frac{7}{8}$. Label for watch-case, on green paper, corners cut.

152 **Freeman & New,** Leadenhall Street, London.
Scale makers.
Label for scale box; gives weights and values of gold coins.
(2) Cut to 2 x $3\frac{1}{8}$, corners removed. Poor condition.

153 **Peter Frith & Compy.,** Sheffield. Warehouse in London, 5 Bartlett's Buildings Holborn. 1866
Opticians & Manufacturers of Mathematical Instruments &c. &c.
Bill-head with part of bill for telescopes.
(1) $5\frac{1}{4}$ x $8\frac{5}{8}$

154 **B. Gammage,** Son-in-law of the late J. Dicas, No. 17, Clarence Street, Liverpool.
Manufacturer and only proprietor of the patent for Dicas's hydrometer.
Instructions for use of the hydrometer are printed on both sides of the card. Price-list at end.
(2) $4\frac{3}{8}$ x $2\frac{7}{8}$ Printed by Egerton Smith & Co., Lord Street, q.v.

155 **William Gardiner** may be heard of at Richard's Coffee-house within Temple-bar, at Mr John Gardiner's a Peruke-maker, just without Temple-bar; at Mr Upton's in Sherrard-street near Golden-square, or at Mr Fowke's an Engine-maker, in King-street, Westminster. 1735
Land-surveyor, see E. G. R. Taylor's *Mathematical Practitioners of Hanoverian England.*
(2) $1\frac{3}{4}$ x $3\frac{1}{2}$

William Gardiner, *see* Edward Laurence & William Gardiner, item 230

156 **John Gilbert** at the Mariner, in Postern Row, Tower Hill, London.
Mathematical, Optical & Philosophical Instruments.
(1) $9\frac{1}{4}$ x $6\frac{3}{4}$ *Plate 24*

Wm. & Thos. Gilbert, *see* Kaleidoscope sellers, item 223

157 **W. Gillett,** 6, Bell Yard, Fleet Street.
Spectacle maker.
Advertisement and price list.
(2) $9\frac{1}{2}$ x $7\frac{1}{2}$

158 **Richard Glynn,** at the Hercules and Atlas in Fleet-street, facing Salisbury-Court. *c* 1700
Mathematical Instruments, either for Land or Sea, & Apparatus for Experimental Philosophy.
(2) $7\frac{3}{4}$ x $4\frac{3}{4}$

159 **Valentine Gottlieb.** Manufactory near the Bridge, Blackfriars Road. Orders received at Mr Downer's, No. 153, Fleet Street.
Maker of Axeltrees, cranes, presses, ship's logs.
(1) $8\frac{3}{8}$ x $7\frac{3}{8}$

160 **J. Goujon,** Rue du Bac, No. 6, à Paris.
Map seller.
Label with blank rectangle in centre to insert title of map.
(3) $2\frac{5}{8}$ x $3\frac{1}{2}$. Corners cut to make an octagon.

161 **Jean Goujon,** Rue du Bac, No. 6, à Paris.
Map seller.

Label for map. 'Etats-Unis, Sud-ouest' is written in ink by hand in a blank rectangle in the centre of the label.
(3) $2\frac{3}{4} \times 3\frac{3}{4}$. Corners cut to make an octagon.

162 **C. Gould,** Microscope maker.

Engraving of a flea 'magnified with the second power of C. Gould's improved pocket compound microscope'.
(3) $4\frac{5}{8} \times 7\frac{3}{4}$

163 **Grassi & Rampoldi,** No. 22, Grey Street, Newcastle-upon-Tyne, Third shop below the Turk's Head Inn. 1844
Toys and fancy goods.
(4) $7 \times 4\frac{5}{8}$

164 **James Green** at the Spring Clock, in Cullum-Street, Fenchurch Street, London.

Seller of watchmakers' tools and machines.
(2) $3\frac{3}{4} \times 6$

165 **Dr. Edward Green** at his own Lodgings, within the Head of Marline's Wynd, second Turnpike on the Right Hand, first Door of the Stair, where formerly my Lord Primrose lodged. On Tuesdays at the House of David Dewar on the Shore of Leith, On Thursdays at Dalkeith and on Saturdays at Mussleburgh.
Oculist.
(3) $8\frac{1}{4} \times 5\frac{7}{8}$

166 **Gregory.**
Optician.
(1) $2\frac{1}{2} \times 1\frac{3}{4}$

167 **Henry Gregory** at ye Azimuth Compass, near ye India-House, in Leaden Hall Street, London.
Mathematical Instruments for Sea or Land.

A printed reproduction of a card.
(3) $2\frac{3}{4} \times 2\frac{1}{8}$

168 **Gregory & Wright,** No. 148 Leadenhall Street, near the India-House, London.
G. Wright from Mr Martin's Fleet Street.
Mathematical and Optical Instrument Maker's. Wright's Patent Quintant to 160D.
(1) cut to $2\frac{1}{2} \times 3\frac{5}{8}$

169 **Will^m Griffith,** No. 4, Dolphin-Court, Ludgate Hill, London.
Watch-Springer, Liner, & Shagreen-Case Maker.
(1) $7\frac{1}{4} \times 5\frac{1}{2}$

170 **Henry Gyles** of the City of York.
Glass painting for windows, as Armes, Sundyals.
(4) $5\frac{1}{8} \times 3\frac{3}{8}$

171 **Haering** A l'Aigle d'Or, No. 63. Palais du Tribunat, près le Café de Foi.
Optician, maker and seller of instruments for Physics, Optics and Mathematics.
(1) $3 \times 4\frac{3}{8}$

172 **W. H. Halse,** 22, Brunswick Sq. London.
Professor of Medical Galvanism.

A sketch of Halse's portable galvanic apparatus.
(3) $5\frac{3}{4} \times 10\frac{7}{8}$

173 **J. Harris** at his House in Amen–Corner, near Pater-Noster-Row. 1702
Teacher of mathematicks, author of 'Algebra'.
(3) $3 \times 3\frac{3}{8}$

174 **T. Harris & Son,** 52, G^t Russell S^t, Bloomsbury, London. 1820
Opticians.

Small label for spectacle case. Gilt lettering on red. Royal coat-of-arms.
(1) $1\frac{3}{8} \times 1\frac{1}{4}$, top corners cut off

175 **Thomas Harris & Son's,** No. 52, opposite the gates of the British Museum. *c*1852
Opticians to the Royal Family. Established 70 years.
(2) $6\frac{3}{8} \times 4\frac{1}{8}$

176 **Thos. Harris & Son,** 52, Great Russell Street, Opposite the entrance to the British Museum, London. 1839

Opticians to the Royal Family. Established 60 years.
(2) $8\frac{5}{8} \times 5\frac{3}{8}$

Thomas Harris & Son, *see* Kaleidoscope sellers, item 223

177 **William Harris & Co.** 50 High Holborn corner of Brownlow Street, London.
23rd May 1836
Manufacturers of Optical, Mathematical & Philosophical Instruments.
Bill-head with instructions about a telescope.
(1) $5\frac{1}{2} \times 5$ (Engraved plate $2\frac{3}{4} \times 3\frac{7}{8}$)

178 **William Harris & Co.** 50 High Holborn corner of Brownlow Street, London.
Manufacturers of Optical, Mathematical & Philosophical Instruments.
(1) $2\frac{3}{4} \times 3\frac{1}{2}$. Two copies in poor condition

179 **W. Harris & Co.** 50 High Holborn, corner of Brownlow Street, London.
Globe maker.
Illustrations of six globes with dimensions and prices. Page from a book.
(2) $5\frac{1}{4} \times 3\frac{3}{8}$

180 **Tho. Haselden,** near Union-stairs, a little below the Hermitage, London. 1735
Teacher of Mathematicks.
(3) $2\frac{1}{2} \times 4\frac{3}{8}$

181 **Francis Hauksbee** (the Nephew of the late M^{r} Hauksbee, deceas'd) in Crane-Court, near Fetter-Lane in Fleetstreet, London. *c*1725
Maker of pumps and hydrostatic apparatus.
(2) $7\frac{1}{4} \times 6$

182 **Walter Hayes,** at the Crosse Daggers in Moore feilds Neere Bethlem Gate, London.
Mathematical instrument maker.
Printed in script type.
(1) $3\frac{1}{4} \times 3\frac{1}{4}$ *Plate 25*

183 **Walter Hayes,** at the Crosse Daggers in Moore feilds Neere the Popes Head Tavern London.
Mathematical instrument maker.
This is a tracing of a card similar to item 182 except that the address is altered. The original appeared on the back of the title page of a book by Samuel Foster, 1654.
(3) $3\frac{1}{2} \times 3\frac{3}{8}$

184 **Walter Hayes** at the Crosse Daggers in Moor Fields, next door to the Popes-head Taveren. 1680
If any Gentleman studious in the Mathematicks, have or shall have occasion, for Instruments thereunto belonging, or Books to shew the use of them, they may be furnished with all sorts, useful both for Sea or Land either in Silver, Brass, or Wood by Walter Hayes . . . and all sorts of Maps, Globes, Sea-Plats and Mathematical Paper, Carpenters Rules, Post and Pocket Dyals for any Latitude, Steel Letters, Figures, Signes, Planets or Aspects. . . .
Below the above advertisement is one for Thomas Salisbury Esq., bookseller.
(2) $4\frac{3}{8} \times 2\frac{1}{2}$

Walter Hayes, *see* Anthony Thompson, item 395

185 **Tho. Heath** at the Hercules & Globe next door to ye Fountain Tavern in the Strand London.
Globes, Spheres, Weather-glasses, Mathematical Instruments & Books.
(1) $3\frac{1}{4} \times 4\frac{7}{8}$

186 **Tho^{s} Heath** at the Hercules next the Fountain in ye Strand London.
Mathematical instruments.
Illustration of a double level, a theodolite and a universal sundial.
(1) $7\frac{7}{8} \times 5\frac{1}{8}$ Two copies.

187 **Thos Heath** at the Hercules & Globe, next the Fountain Tavern in the Strand. 1729
Mathematical Instruments with Books of their use.

Illustration of the obverse and reverse of a sector.
(1) $5\frac{1}{8}$ x $7\frac{1}{4}$

188 **Heath and Wing** near Exeter Exchange in the Strand, London.
Mathematical and Philosophical Instruments.

T. Newman uses same card, see item 284
(1) $3\frac{7}{8}$ x $5\frac{1}{8}$

189 **William Heather** at the Navigation Warehouse, 157, Leadenhall Street, London.
Chart and Map-seller. Sextants & Nautical Instruments.
(1) $2\frac{5}{8}$ x $3\frac{5}{8}$

Hector, see Johnston, Brookes, Hector & Davidson, item 211

190 **M. Henry,** 21, Passage Delorme, and Rue de Rivoli, 12, A Paris. 185–
Oculist-Optician.

Bill-head with advertisement and testimonials. English on one side and French on the other.
(1) $9\frac{7}{8}$ x $5\frac{1}{2}$

191 **Henry's** Patent Balance & Guage, 54, Paternoster Row.

Advertisement and calibration tables taken from the lid of a coin balance. One table gives Weights agreeable to L[d] Howe's Proclamation at New York. Agents for the balance are: Mr Stamps, Goldsmith, Cheapside, Messrs. Woolley & Hemming & Messrs. Stibbs & Dean, Fish Street Hill.
(2) $1\frac{5}{8}$ x $6\frac{7}{8}$

192 **James Heskett,** No. 13 Sweetings Alley, Roy[l] Exchange.
Map, print & chart seller. Globes & mathematical instruments.
(1) $3\frac{3}{4}$ x $2\frac{3}{8}$

193 **A. Hilger,** 204, Stanhope Street, three doors from Mornington Crescent, N.W.
Astronomical and Optical Instrument Maker.
(1) $2\frac{3}{8}$ x $3\frac{5}{8}$ *Plate 26*

194 **Nathaniel Hill** at the Globe & Sun, in Chancery Lane, Fleet Street, London.
Globe Maker, & Engraver. Mathematical Instruments.
(1) 13 x 8 *Plate 27*

195 **Mr. N. Hill** opposite Serjeants Inn Chancery Lane London.
Globe-maker.
(2) $2\frac{3}{4}$ x $6\frac{1}{2}$

Marmaduke Hodgeson, *see* William Court, item 99.

196 **William Holliwell** (from London) No. 14, North Side Salthouse Dock, Liverpool.
Real manufacturer of Mathematical & Optical Instruments for navigation.
(1) $2\frac{7}{8}$ x $4\frac{1}{2}$

197 **Horne, Thornthwaite, and Wood,** (successor to E. Palmer) 123, Newgate Street, London. June 1846
Chemical and Philosophical Apparatus.
(2) $2\frac{3}{4}$ x 6

198 **Horne & Thornthwaite,** 122, & 123, Newgate Street, London.
Chemical Philosophical & Photographic Instrument Manufacturers. Operative Chemists and Opticians. Medal at 1851 Exhibition.
(1) $3\frac{3}{8}$ x $4\frac{7}{8}$

199 **Horne & Thornthwaite** Nos. 121, 122, 123, Newgate Street, London, E.C.
Photographers. Royal appointment.

1851 Exhibition medal.
(1) $2\frac{3}{8}$ x $3\frac{1}{2}$

200 **John Hudson,** No. 112, Leadenhall Street, near Saint Mary Axe; and at No. 9, Saint Martin's Court, Leicester Square, London.
Maker of spectacles and optical, mathematical, and philosophical instruments and apparatus.
(1) 11 x $7\frac{3}{4}$

201 **J. T. Hudson,** Henrietta Street, Cavendish Square.
Optician and Spectacle Maker.
An advertisement for a pamphlet called *Spectaclaenia* written by Hudson and sold (for one shilling) by Simpkin and Marshall, London.
(3) $8\frac{1}{2}$ x $5\frac{5}{8}$

202 **Hudson & Son,** Greenwich.
Opticians.
Illustrated directions for using a pedometer.
(3) $7\frac{3}{4}$ x $5\frac{1}{8}$

203 **J. Hughes,** 38, Queen Strt Ratcliffe. E. London.
Manufacturer of Sextants & Quadrants Compasses, Telescopes &c.
(1) $2\frac{3}{8}$ x $3\frac{5}{8}$

204 **G. Hund.** Name, of a maker or engraver, on an illustration of various trigonometrical, carpenters' and interest scales.
(3) $3\frac{3}{4}$ x $12\frac{1}{4}$

205 **All^{n} Hunt,** No. 7, King's Row, Horslydown, Southwark.
Maker of Ship-models.
(1) $2\frac{1}{2}$ x $3\frac{5}{8}$

206 **A. Hurlimann,** successor to Ponthus & Terrode, 6, rue Victor Considérant, Paris. (Address '13, Passage Dauphine, Paris' is crossed out.)
Maker of precision instruments.
(1) $2\frac{3}{4}$ x $4\frac{1}{4}$ Two copies

Husbands, *see* T. Wright & Husbands, item 454

207 **J. Hynam,** 7, Princes-Square, Wilson-Street, Finsbury.
Maker of Fusees & Congreves (Matches).
(2) $4\frac{1}{2}$ x 5

208 **Henry Isaacs,** No. 60, Lucas Street, Commercial Road S^{t} George's East, London.
Optician & spectacle hawker.
(2) Folded sheet $8\frac{3}{8}$ x $5\frac{1}{4}$

209 **Samuel Johnson** (The Oldest Shop), Successor to the late M^{r} Mann, At the Sign of Sir Isaac Newton and Two Pair of Golden Spectacles, near the West End of S^{t} Paul's London.
Maker of spectacles and optical instruments.
(1) $6\frac{1}{2}$ x 7 *Plate 28*

210 **William Johnson,** 188, Tottenham Court Road, London. W. 188–
Manufacturing optician and spectacle maker. Bill head with first three figures of year. Mentions 1862 exhibition.
(1) 7 x $8\frac{1}{4}$ 4 copies

211 **Johnston, Brookes, Hector & Davidson,** successors to the late George Penton, No. 32, New Street Square, Fetter Lane, London.
Brass founders & lamp manufacturers.
(1) $4\frac{1}{4}$ x $5\frac{3}{4}$

212 **D. Jones,** Charing Cross, London. *c*1770–1780
Manuscript instructions from the case of a $2\frac{1}{4}$-inch refracting telescope made by D. Jones.
(4) $5\frac{1}{8}$ x 7

213 **Thomas Jones,** (Pupil of Ramsden) 62, Charing Cross, London.
Astronomical and Philosophical Instrument Maker to His Royal Highness the Duke of Clarence.
(1) $3\frac{3}{4}$ x $2\frac{1}{2}$. Removed from instrument box, and part torn off.

214 **Thomas Jones,** (Pupil of Ramsden).
Astronomical and Philosophical Instrument Maker.

A torn fragment of card similar to, but not exactly like, item 213.
(1) $3\frac{3}{8}$ x $2\frac{5}{8}$ (irregular shape).

215 **Thomas Jones,** From 62 Charing Cross, 4, Rupert Street, Coventry Street.
Astronomical, Mathematical, Optical, and Philosophical Instrument Maker.
(1) $1\frac{7}{8}$ x $3\frac{3}{8}$

216 **Thomas Jones,** No. 13, Panton Street, Haymarket, London.
Astronomical, Mathematical, Optical, and Philosophical Instrument Maker.
(1) 2 x $2\frac{3}{8}$ Two copies, (C.C.39 badly torn).

217 **Thomas Jones,** 62, Charing Cross, removed to 4, Rupert Street, Haymarket.
Optician.

Advertisement and price list of telescopes and other instruments, removed from instrument box.
(2) $3\frac{5}{8}$ x 5

Thomas Jones, *see* Kaleidoscope sellers, item 223

218 **W. and S. Jones,** No. 30, Opposite Furnivals Inn, Holborn, London. 1828
Optical and Mathematical Instrument makers.
(1) Bill head. $2\frac{1}{2}$ x $7\frac{5}{8}$

219 **W. and S. Jones.** 1852

Similar bill head to above item 218 but with a different date.
(1) $2\frac{1}{2}$ x $7\frac{3}{4}$ *Plate 29*

220 **W. and S. Jones,** No. 30, Lower Holborn, London
Opticians, &c.

Advertisement for books by the late G. Adams and a price list of globes and orreries.
(2) 8 x $9\frac{5}{8}$

221 **W. and S. Jones,** at the Archimedes, No. 30, Lower Holborn, London, (Nearly opposite Furnival's Inn.)
Philosophical, Mathematical and Optical Instrument Makers.

A memorandum sheet with picture of Archimedes and name and address of firm at the top. There are three copies in the collection, two have different MS memoranda on the blank part, the third has the lower blank part removed.
(1) $9\frac{1}{2}$ x $5\frac{5}{8}$ & $5\frac{1}{4}$ x $5\frac{5}{8}$
(3) Photograph $10\frac{7}{8}$ x $6\frac{3}{8}$
Plate 30

222 **W. & S. Jones,** No. 30 Lower Holborn, London.
Opticians, &c.

Small label for instrument box.
(1) 1 x $2\frac{1}{8}$

W. and S. Jones, *see* Kaleidoscope sellers, item 223

223 **Kaleidoscope sellers**
The Patent Kaleidoscopes, in various forms, and with all the latest improvements, are made and sold, in LONDON, By Messrs. P. & G. Dollond, S^{t} Paul's Church-Yard Messrs. W. & S. Jones, Holborn; Mr. R. B. Bate, Poultry; Messrs Thomas Harris & Son, Great Russell Street; M^{r} Bancks, Strand; Messrs. Wm. & Thos. Gilbert, Leadenhall Street; M^{r} Berge, Piccadilly; M^{r} Thomas Jones, Cockspur Street; M^{r} Blunt, Cornhill; M^{r} Schmalcalder, Strand; Messrs Watkins & Hill, Charing Cross; M^{r} Smith, Royal Exchange; and Messrs. Spencer, Browning, & Rust, Wapping.
at BIRMINGHAM, By M^{r} Philip Carpenter;
at BRISTOL, By M^{r} C. Beilby;
at LIVERPOOL, By Messrs Egerton Smith & Co. and
at EDINBURGH, By M^{r} John Ruthven.
(2) $4\frac{1}{8}$ x $3\frac{3}{8}$

224 **Messrs Keyzor,** S^{t} Giles's Street, Norwich. 1854

Opticians.

Visiting Ipswich until 14th July offers spectacles to view at M^{r} G. Smyth's, Pastry Cook and Confectioner, Tavern Street, Ipswich.
(2) $4\frac{5}{8}$ x 3

225 **M & M. Keyzor,** No. 16, Tottenham Court Road, London.

Opticians & Manufacturers & hawkers of Spectacles.
(2) $8\frac{1}{2}$ x $6\frac{3}{4}$

226 **R. Kibble,** 6, London Street, Greenwich.
Working goldsmith, jeweller, watch and clock manufacturer.

Advertisement and price list of watches etc.
(2) $7\frac{1}{2}$ x $4\frac{5}{8}$

227 **Gowin Knight**

A certificate for a magnetic compass signed by Gowin Knight, to be stuck in the instrument box.
(3) Photograph. Oval. $3\frac{3}{8}$ x $3\frac{7}{8}$

Gowin Knight, *see* George Adams, item 8

228 **Heber Lands,** in Halford Court in Fen-Church-street, over against Rood-Lane, near the Dial, London. 1694
Teacher of Mathematics.
(3) $4\frac{7}{8}$ x $2\frac{3}{4}$

Batty Langley, *see* Benj. Scott, item 341

229 **Lattré,** rue S^{t} Jacques vis-à-vis celle de la Parchemin i.e. No. 20 A Paris.
Engraver.

Title page of a child's atlas showing mathematical and surveying instruments.
(3) $7\frac{5}{8}$ x 5

230 **Edward Laurence and William Gardiner** may be heard of at M^{r} Jonathan Sisson's, Mathematical Instrument-maker, in the Strand, or at M^{r} Mead's, a Goldsmith, near Temple-Bar. 1725
Surveyors.
(2) $5\frac{1}{2}$ x $3\frac{3}{4}$

231 **Lavoisier** de l'Academie Royale des Sciences, regisseur des Poudres et Salpêtres de France.
Book plate
(4) $5\frac{3}{8}$ x $3\frac{7}{8}$

232 **Charles Leadbetter,** at the Hand and Pen in Cock-Lane, Shoreditch, London. 1738

Teacher of practical Mathematicks. Author of Astronomical Works: *Uranoscopia* and *Mechanick Dialling*.
(2) $1\frac{1}{2}$ x $3\frac{5}{8}$

233 **George Lee & Son,** Ordnance Row, The Hard, Portsea, and 3, Palmerston Rd, Southsea.
Manufacturers of Mathematical, Optical & Nautical Instruments to the Hon^{ble} Corporation of the Trinity House & the Admiralty.
(1) 3 x $4\frac{1}{2}$ (corners removed). *Plate 31*

234 **Lenoir,** au Petit Bénéfice, Quai de l'Horloge-du-Palais, n.59. 1830
Optician.
(2) $1\frac{5}{8}$ x $2\frac{3}{8}$

235 **Henry de Leth.** Advertisement in French. *c*1735

Seller of maps, prints, books & globes.
Pocket globes by Jean Deur.
(2) $7\frac{5}{8}$ x 3

236 **John Lilley & Son,** 9, London Street, Fenchurch Street, London, E.C. 1865
Nautical & Mathematical Instrument Manufacturers to Her Majesty's Royal Navy. Inventors & patentees of the new liquid Steering Compass.
(1) 3 x $4\frac{5}{8}$

237 **John Lilley & Son,** 7, Jamaica Terrace, Limehouse, London. 1865
Nautical and Mathematical Instrument Manufacturers.

Instructions on the care of compass pivots.
(3) $3\frac{3}{8}$ x $6\frac{1}{2}$

238 **Lincoln,** No. 62 Leadenhall Street, London. Optician.
(1) $5\frac{1}{2}$ x $3\frac{3}{4}$

239 **Joseph Linnell,** successor to the late Mr James Ayscough, at the Great Golden Spectacles and Quadrant, No. 33, in Ludgate-Street, near St. Paul's, London.
Linnell succeeded Ayscough about 1763 and adopted the latter's trade card, c.f. item 21.
(1) $12\frac{1}{2}$ x $7\frac{1}{4}$
Plate 32

Linton, *see* Aubert & Linton, item 16.

240 **James Long,** Royal Exchange.
Photograph of instructions, in English & French, in the lid of a telescope box.
(3) 13 x 8

241 **Jos^{h} Long,** No. 20, Little Tower Street, London. 1830
Manufacturer of Sikes's Hydrometer &c.
Illustrated advertisement for hydrometers, saccharometers and guaging rules.
(2) $11\frac{3}{4}$ x $6\frac{7}{8}$. Printed on both sides.

242 **James Love,** at the Rose, No. 12, Haymarket, nearly opposite the Opera-House. (Removed from No. 10). 1788
Perfumer's advert. with MS account & receipt.
(4) 13 x 8

W. Lovelace, *see* W. Barrow & W. Lovelace, item 31.

243 **E. Lutz,** Rue des Noyers, 49, (Bd. St. Germain), Paris.
Instruments d'Optique à l'usage des sciences.
(1) $2\frac{3}{4}$ x $2\frac{3}{4}$. Removed from an instrument box.

244 **Ed Lutz,** Rue des Noyers, 49 (Boulevard Saint-Germain), Paris.
Opticien fabricant des Instruments à l'usage des Sciences.
(1) $2\frac{5}{8}$ x 4. From an instrument box.

245 **James Lynch** at the Sign of the Royal Spectacles, Capel Street, Dublin.
Mathematical Philosophical and Optical Instrument Maker.
(1) Circle 2-inch diameter for instrument box.

246 **Ed. Mc. Glade**, 166 Gt. Brunswick St., Dublin.
Picture Frame Maker.
(4) 3 x $4\frac{1}{4}$

247 **D. Mc.Gregor,** 38, Clyde Place, Glasgow & 8, William Street, Greenock.
Manufacturer of Nautical, Mathematical & Optical Instruments, Chronometers & Watches. *See* item 248.
(1) $2\frac{7}{8}$ x $4\frac{1}{4}$. Stained, corner missing.

248 **D. Mc.Gregor & Co.** 38, 39 & 40 Clyde Place, Glasgow, & City Bank (. . .) nearly opposite the Railway (. . .).
Manufacturers of Nautical, Mathematical & Optical Instruments, Chronometers & Watches.
Similar to item 247 with minor alterations.
(1) $2\frac{7}{8}$ x $4\frac{3}{8}$. Badly damaged and part missing.

249 **Thos. Mc.Intosh,** at the Archimedes and Golden Spectacles, Great Queen Street Lincoln's Inn Fields London.
Optician. Makes and Sells all sorts of Optical & Mathematical Instruments.
(1) $8\frac{3}{4}$ x $7\frac{1}{8}$

250 **A. Mackenzie,** No. 15, Cheapside, near St Pauls Church Yard, London.
Optical, Mathematical, & Philosophical Instrument Maker.
(1) $3\frac{5}{8}$ x $2\frac{3}{8}$

251 **James Mann,** At the Sign of Sir Isaac Newton, and Two Pair of Golden Spectacles, near the West End of St. Paul's, London.
Optician.

A composite 'trade card' made – at some late date – from three separate pieces.
(1) $10\frac{1}{2} \times 7\frac{1}{4}$
Plate 33

252 **James Mann** *c*1750

This consists of only the engraved picture of item 251. The words 'James Mann', just below the picture, have been cut in half.
(1) $4\frac{1}{2} \times 7\frac{1}{2}$

253 **James Mann and James Ayscough,** At the Sign of Sir Isaac Newton, and Two Pair of Golden Spectacles near the West-End of St Paul's, London.
Opticians.

A sheet (pages 15 & 16) from a book. Printed on both sides with a text very similar to that of item 251.
(2) $7\frac{7}{8} \times 4\frac{7}{8}$

254 **James Mann and James Ayscough** At the Sign of Sir Isaac Newton and Two Pair of Golden Spectacles, near the West-End of St. Paul's, London. 1747

Advertisement cut from the *London Evening Post*, 12 March 1747, describing improvements to the Compound (or Double) Microscope. (Price Six Guineas with a Book of its Use).
(2) $4\frac{1}{2} \times 3\frac{5}{8}$

255 **John Marshall** at the Archimedes and two Golden Spectacles in Ludgate Street. The Oldest Shop.
Optician. Maker of Optic Glasses to his Majesty.

Text in English, French & German. Original card in Banks Collection.
(3) Photograph $7\frac{5}{8} \times 5\frac{3}{8}$

256 **John Marshall,** at the Old Archimedes and Spectacles in Ludgate-street, being the second Spectacle-shop from Ludgate, London.
Optician.
(3) Photograph. $8\frac{1}{8} \times 5\frac{5}{8}$

257 **John Marshall,** at the Sign of the Archimedes and two Golden Spectacles in Ludgate-street, near St Paul's Churchyard, London, the House being new-built. Optician established 1690.

Trade card incorporates text of letter from Edm. Halley, dated Jan 18. 1693,4 expressing approbation by the Royal Society.
(3) Photograph $8 \times 5\frac{3}{4}$

Marshal, *see* Timothy Brandreth & George Willdey, item 59.

258 **Benjamin Martin** at his Shop near Crane Court in Fleet Street.
Philosophical Optical and Mathematical Instruments.
(1) $8 \times 9\frac{3}{8}$ *Plate 34*

259 **Benjamin Martin,** No. 171, Fleet-street, London.
Philosophical, Optical and Mathematical Instruments.

Directions for the Use of a Reflecting Telescope with a general advertisement at the bottom.
(2) $9\frac{1}{4} \times 6\frac{7}{8}$

260 **Benjamin Martin,** Chichester. 1735
By the Author, in Chichester, are taught I Writing. . . . II Arithmetic. . . . IX Astronomy and Geography. . . . XVI The Use and Construction of all the most useful mathematical Instruments.

An advertisement page from a book by Martin.
(2) $6\frac{1}{2} \times 4\frac{5}{8}$

261 **B. Martin** 1742

Price list of microscopes, telescopes and air pump all made by B. Martin, Inventor of the above Microscopes. Also a list of agents where they are sold in Reading, London, Oxford, Cambridge and Sarum.
(2) $7\frac{3}{8} \times 6\frac{1}{8}$

262 **B. Martin,** London

A map of part of the world at the centre of a compass rose.
(3) $6 \times 6\frac{3}{8}$

263 **Benjamin Martin** at the New Invented Visual Glasses Fleet Street, London.
July 24, 1761.

A bill to Mr Gordon for drawing-instruments and telescopes. Signed by M. Martin.
(3) Photograph $6\frac{3}{4} \times 8\frac{3}{4}$

264 **Benjⁿ Martin**

A receipt in manuscript for the amount shown in item 263.
(3) Photograph $3\frac{1}{2} \times 4\frac{1}{2}$

265 **Benjamin Martin** at the New Invented Visual Glasses Fleet Street, London.
March 9, 1761.

A bill to Mr Gorden for telescope & spectacles. Signed by M. Martin.
(3) Photograph $6\frac{3}{8} \times 8\frac{5}{8}$

266 **Benjⁿ Martin**

A receipt in manuscript for the amount shown in item 265.
(3) Photograph $4\frac{1}{2} \times 3\frac{1}{2}$

Martin, jun, *see* Richard Wakefield, item 421

267 **Martinet** aux galleries du Louvre.

An item from a catalogue (in English) for the sale of a Louis XIV Clock inscribed 'Pouilly Inventor Fecit Parisiis' and 'Henricus Martinot Motum Adjunxit.'
(3) $1\frac{3}{4} \times 3\frac{1}{2}$

268 **Thomas Mason,** 11, Essex Bridge, Dublin. Optician. Mathematical & Philosophical Instrument Maker to His Excellency the Lord Lieutenant and the Irish Court. Established AD 1780
(1) $2\frac{1}{4} \times 3\frac{1}{2}$

269 **Thomas H. Mason,** 5 & 6 Dame Street (near the Castle) late 21 Parliament Street, Dublin. Telephone 3846. 1896
Optician, Mathematical and Philosophical Instrument Maker to His Excellency the Lord Lieutenant and the Irish Court. Established AD 1780

A bill head.
(1) $4 \times 5\frac{5}{8}$

270 **John Mawson,** 9, Mosley Street, Newcastle-upon-Tyne. 1860

Retailer of optical instruments etc.
(2) $2\frac{3}{4} \times 3\frac{3}{4}$

271 **Mawson & Swan,** Newcastle on Tyne & London. 33, Soho Square, London.
Photographic apparatus.
(1) $6\frac{3}{8} \times 4\frac{3}{8}$

J. Maxwell, *see* J. Senex and J. Maxwell, item 351.

272 **John Milne & Son,** at the Golden Church Branch Bishops Land, High Street, Edinburgh. 16 July 1767
Founders and Iron-mongers.

Engraved bill-head on bill to Mr. Mackenzie for work on a sundial.
(1) $6 \times 7\frac{3}{8}$

273 **Pablo (or Paulus) Minguet, Madrid.** 1763

Optical apparatus & spectacles.

Advertisement and directions in Spanish.
(3) Photograph, $11\frac{3}{8} \times 7\frac{1}{2}$

274 **Moffett & Blackburn,** 126, Minories, London.
Scale-makers.
(1) $2\frac{1}{4} \times 3\frac{1}{4}$

275 **H. Moll.** Geographer. 1727
Map of the whole world with the Trade winds.
(4) $8\frac{1}{4}$ x $10\frac{5}{8}$

276 **Francois van Mols,** Antwerp.
Printer.
An engraved book-plate showing three putti in a library with microscope, globe, lens and other instruments.
(3) $3\frac{1}{4}$ x $2\frac{3}{4}$

277 **Francis Morgan,** At the Sign of Archimedes and Three Spectacles, No. 27, Ludgate-Street, near St Paul's, London.
Optical, Philosophical, and Mathematical Instrument-Maker.
In English & French.
(1) 9 x $5\frac{7}{8}$

278 **G. Morris,** No. 9, Bedford-sq. East London.
Spectacle maker. Licensed hawker.
(2) $12\frac{5}{8}$ x 10

279 **Samuel Morse,** No. 3, Tenter Terrace, Prescot Street, London.
Spectacle maker. Licensed hawker.
(2) $13\frac{1}{4}$ x $8\frac{1}{8}$

280 **S. Moss,** 150 (adjoining the Arcade) High Street, Cheltenham.
Druggist, Operative & Experimental Chymist.
(1) $5\frac{1}{8}$ x $8\frac{1}{2}$ 2 copies

281 **Edward Nairne,** at the Golden Spectacles, Reflecting Telescope and Hadley's Quadrant, in Cornhill, opposite the Royal Exchange, London. *c*1760
Optical, Philosophical, and Mathematical Instrument-Maker.
(1) $9\frac{3}{4}$ x $6\frac{1}{2}$
Plate 35

282 **Edward Nairne,** No. 20, in Cornhill, opposite the Royal-Exchange, London.
Optical, Philosophical, and Mathematical Instruments.
Directions for using the Achromatic Prospective-Glass, which is illustrated on a separate sheet.
(2) $11\frac{1}{8}$ x $8\frac{3}{8}$ & 6 x $8\frac{3}{8}$

Nairne, *see* Field, item 148.

283 **Henry Neale** at ye end of St Bartholomew Lane, near the Royall Exchange, London. 17th century.
Scale maker.
Cutting from a sale catalogue describing scales in a box with maker's label in the lid.
(3) $\frac{1}{2}$ x $3\frac{5}{8}$

284 **T. Newman,** Successor to Heath and Wing, in Exeter Exchange in the Strand, London.
Mathematical and Philosophical Instruments. Black lead pencils and Books of the Use of Instruments.
Similar to Heath & Wing, item 188, with the addition of the words 'T. Newman Successor to' at the top and 'near Exeter Exchange' has been altered to 'in Exeter Exchange'.
(1) $3\frac{3}{8}$ x $4\frac{1}{8}$

285 **Newton,** 66, Chancery Lane.
Globe makers, also orreries, tellurians and planetariums.
Cutting from a newspaper.
(2) $1\frac{1}{8}$ x $3\frac{1}{8}$

286 **Newton & Son,** 66 Chancery Lane, London.
Globe makers.
Pictures of 8 types of globes with prices of various sizes of each type.
(1) $5\frac{7}{8}$ x $3\frac{5}{8}$

287 **Newton & Co.** 3, Fleet Street, London, Near Temple Bar.
Opticians, Mathematical, Philosophical & Astronomical Instrument Makers, Globe Manufacturers, to Her Majesty.
(1) $2\frac{3}{4}$ x $3\frac{3}{4}$. Corners removed, card torn in two.

288 **Newton & Co.** 3, Fleet Street, London. Near Temple Bar.
Opticians, Mathematical, Philosophical, & Astronomical, Instrument Makers, Globe Manufacturers to Her Majesty.

This is similar to item 287 with the addition of particulars of medals, etc., awarded between 1851 and 1885.
(1) $2\frac{1}{2}$ x $3\frac{5}{8}$. Corners removed. *Plate 36*

289 **Samuel Newton,** Master of the Mathematical School, Christ's Hospital, Founded by King Charles II. 1710

Author & teacher advertises books printed for Christopher Hussey, at the Flower de Luce in Little Britain.
(3) $4\frac{3}{8}$ x 3

290 **Noseda,** au Palais Royal no. 93.
Opticien.
(1) $5\frac{5}{8}$ x 4

291 **James Oswald,** Saint Martin's Church Yard in the Strand, London. 23 Oct. 1747
Music master.

King George II grants copyright in opera entitled *The Temple of Apollo*.
(4) $10\frac{3}{8}$ x $8\frac{1}{4}$

292 **Thomas Page,** William and Fisher Mount. 1735

A list of about 30 books on navigation, gunnery, mathematics and related subjects, with authors' names, headed 'Books of Navigation Printed for Thomas Page, William and Fisher Mount'.
(3) $5\frac{1}{4}$ x $4\frac{3}{8}$

293 **Thos Parnell,** at the Marine & Quadrant. No. 94, Near the Hermitage Bridge, Lower East Smithfield, London.
Mathematical Instrum^{t} Maker, & Ship Chandler.
(1) $3\frac{1}{2}$ x $4\frac{1}{8}$

294 **John Patrick** in Ship-Court in the Old-Baily London.
Maker of barometers and thermometers.

A descriptive advertisement giving rules for foreknowing the weather. It is illustrated by a print from a copperplate impressed on the top left-hand quarter of the paper. Letterpress on both sides of the sheet. The two versions differ in the setting of the letterpress and in minor details of the wording.
(2) $9\frac{7}{8}$ x $8\frac{1}{8}$. Engraved plate $5\frac{1}{4}$ x $3\frac{1}{8}$. Two versions.

295 **John Patrick,** over against Bull-Head-Court in Jewen-Street; near Cripplegate-Church.
Maker of weather-glasses.

Directions for fixing the Weather-Glass.
(2) $11\frac{3}{8}$ x $6\frac{7}{8}$

George Penton, *see* Johnston, Brookes, Hector & Davidson, item 211.

296 **S. Phillips,** No. 231, Tottenham Court Road, (nearly opposite Percy Street, late of Rathbone Place).
Spectacle maker. Practical Optician.

Price list of spectacles.
(1) $7\frac{1}{2}$ x 5

297 **Ch. Picquet,** à Paris, Quai de Conti No. 17, entre l'Hôtel des Monnaies et le Pont des Arts.
Géographe ordinaire du Roi et de S.A.R. Monseig^{r} le Duc d'Orléans.

A label for a map with 'Carte de la Palestin' written by hand in ink in the central blank space.
(3) $2\frac{1}{2}$ x $3\frac{5}{8}$ (corners cut)

298 Planetarium course of Experimental Philosophy. Channel-Row, Westminster. 1728
(3) $1\frac{3}{4}$ x $5\frac{1}{2}$

299 **Francisco Porro,** Gibraltar.
Nautical Instruments.

Bill-head.
(1) $2\frac{7}{8} \times 8$

300 **Henry Porter,** apprentice & successor to the late W. Cary, 181, Strand, London.
Optician & Mathematical Instrument Maker, to the Admiralty, War Office, Royal Geographical Society, Christs Hospital, Trinity House & the Swedish & Norwegian Governments, &c. &c.

Card for instrument box with provision for recording dates of repair and adjustment and amount of index error.
(1) $3\frac{3}{8} \times 5$
Five examples in different instrument boxes:
Box 379. Adjusted 9/3/85
Box 103. Adjusted May 1886
Box 111. Adjusted May 1886
Box 384. Adjusted April/85. Index Error + 10″.
Box 406. Adjusted April/85.

Henry Porter, *see* Cary & Co., item 78.

Porter, *see* Cary, Porter Ltd., items 79 & 80.

301 **Porter and Hunt (John Hunt),** Polytechnic Institution, No. 309, Regent Street.
Spectacle makers. Practical opticians.
(2) $8\frac{3}{4} \times 7\frac{3}{8}$

302 **J. D. Potter, successor to R. B. Bate,** 31 Poultry, London.
Hydrometer and Mathematical Instrument Maker. Chart Agent. Mathematical, Optical & Philosophical Instruments & Apparatus. To the Rt. Hon^{ble} the Lords Commiss^{rs} of the Admiralty.

There are fifteen copies in the collection, nine of them still in instrument boxes. (Only one copy is catalogued here.)
(1) $2\frac{3}{4} \times 4\frac{1}{4}$ *Plate 37*

303 **T. Powell,** 164, Regent Street, late of the Strand London. May 1828
Exhibition of Fancy Glass Working to be given at Mr Brown's, Grocer, Lowgate, next door to the Mansion-House, Hull. Powell Established 1811.
(3) $5\frac{1}{8} \times 8\frac{1}{2}$

304 **Powell & Lealand. Ross.**

A manuscript description of a Powell & Lealand microscope with Ross objectives, written by W. Kingsley, Cambridge Mathematician, 1852, inventor of the Kingsley substage condenser.
(4) $8\frac{1}{8} \times 3\frac{1}{4}$

305 **P. Premoli & Co.,** Postern, Newcastle.
Looking Glass, Barometer, & Thermometer Manufacturers.
(1) $2\frac{3}{8} \times 3\frac{1}{2}$

C. Price, *see* Scott & Price, Seller & Price and Senex & Price, items 342, 344 & 352.

306 **Andrew Pritchard,** 312, Strand, London, Near the Church. 1830
Microscope maker, inventor of the Diamond and Sapphire Microscopes.

Price list of microscopes.
(2) $8\frac{7}{8} \times 5\frac{1}{2}$

307 **Andrew Pritchard,** 162 Fleet Street, London.
Optician and Spectacle Manufacturer.

List of optical apparatus. Prices of spectacles and books on microscopic science.
(2) $5\frac{1}{2} \times 8\frac{5}{8}$

308 **John Prujean** living neer New College in Oxford.
Maker of dials and Instruments for the Mathematicks.

Directions for use of the Horological Ring-Dial.
(2) $9\frac{7}{8} \times 5\frac{3}{8}$

309 **Henry Pyefinch,** At the Golden Quadrant, Sun, and Spectacles, No. 67, between Bishopsgate-Street, and the Royal-Exchange, in Cornhill, London.
Optical, Philosophical, and Mathematical Instruments.

A catalogue of about 120 items with their prices.
(1) $12\frac{3}{8}$ x $6\frac{1}{2}$
Plate 38

310 **Quian's** Hydrometer.

Directions for use of the hydrometer.
(3) 7 x $7\frac{7}{8}$

Raingo Frères, *see* Aubert & Linton, item 16.

311 **Ramsden,** Near the Little Theatre in y^{e} Hay-Market, St. James's.
Mathematical, Optical & Philosophical, Instrument Maker.
(1) $2\frac{1}{2}$ x $3\frac{3}{4}$ *Plate 39*

312 **Aaron Rathbone.**

Photograph of the title page of *The Surveyor* by Aaron Rathbone, 1616.
(4) $7\frac{5}{8}$ x $4\frac{7}{8}$

313 **William Read,** From his House in Durham-Yard in the Strand, London, the Queens-Arms being over the Door. *c*1701
Oculist. Her Majesty's only Sworn Servant in Ordinary, as also to His late Majesty King William III.
(3) $7\frac{1}{4}$ x $4\frac{1}{2}$. Text on both sides of sheet.

Read, *see* William Brind, item 61.

314 **Manuel Recarte,** Carrera de S^{n} Geronimo No. 22. Pral. Madrid.
Surveying instruments.
(1) $2\frac{3}{4}$ x $4\frac{3}{8}$ *Plate 40*

315 **Tho. Reeves.**
Mathematical practitioner. Surveyor.
Nativitys Calculated.
(1) $3\frac{3}{4}$ x $5\frac{1}{2}$

316 **Thomas Ribright** at the Golden Spectacles in the Poultry, London.
Optician.

There are two almost identical versions of this card in the collection, one of which has: 'Optician to his Royal Highness George Prince of Wales' and the other 'Optician to his Royal Highness Prince George'.
(1) 9 x $7\frac{1}{2}$ *Plate 41*

317 **Matthew Richardson,** late Apprentice to Mr Scarlett at Sr. Isaac Newton's Head, & Golden Spectacles, against York Buildings in ye Strand.
Optician to his Majesty.
(1) $7\frac{1}{4}$ x $4\frac{3}{4}$ *Plate 42*

318 **Richebourg** No. 69, Quai de l'Horloge à Paris, élève practicien, pendant 10 ans, de Feu Vincent Chevalier, premier Constructeur en France des Microscopes Achromatiques. 1850
(1) $4\frac{7}{8}$ x $7\frac{1}{4}$

319 **Richebourg** No. 69, Quai de l'Horloge, à Paris.
Ingénieur-Opticien. Fabrique d'instruments de précision d'Optique, Physique, Mathématiques, Minéralogie et de Marine. Elève de Feu Vincent Chevalier.

This four-page pamplet uses the same illustration of a collection of instruments as item 318.
(2) $8\frac{5}{8}$ x $5\frac{3}{8}$ Folded pamphlet.

320 **Ripley,** No. 335, Wapping, London. (This printed address has been crossed out and replaced in manuscript by 'Mill Place, Commercial Road, Limehouse'.)

Mathematical, Optical, & Philosophical Instruments, for Sea & Land, Navigation-Books and Sea-Charts.
(1) $5\frac{1}{8} \times 3\frac{3}{4}$

321 **John Roach,** No. 540 Washington Street, near Montgomery, San Francisco, Cal. 1870
Optician. Thermometers, Barometers. Maker of the Large Transit to Re-Survey the City of San Francisco, 1862.
(1) $4\frac{1}{4} \times 5\frac{3}{4}$ (Printed in red)

322 **John Roach,** No. 429 Montgomery Street, S.W. Corner of Sacramento, San Francisco, Cal. 1880
Optician. Thermometers, Barometers, &c. Large Transit of 1862.
(1) $3\frac{7}{8} \times 4\frac{7}{8}$ (Gilt letters on black card)

323 **And^{w} Ross,** 2, Featherstone Buildings, High Holborn. 1853.
A printed table of magnifying powers of object- and eye-glasses of a microscope. Values inserted in manuscript.
(3) $4\frac{3}{4} \times 7\frac{1}{4}$

324 **Andrew Ross,** 2 Featherstone Buildings, Holborn.
A manuscript price-list of microscope, objectives and accessories.
(3) $9\frac{7}{8} \times 7\frac{7}{8}$

325 **Joseph Roux Fils Ainé et Comp.** sur le Port vers St Jean à Marseille.
Navigational and drawing instruments, telescopes, flags and charts.
(3) Photograph, $6\frac{1}{4} \times 4\frac{3}{4}$

326 **John Rowley,** under St Dunstan's-Church in Fleet-Street. 1702
Mathematical Instrument-Maker.
An advertising testimonial to Rowley signed by John Harris.
(2) $2\frac{3}{4} \times 3\frac{1}{4}$

327 **John Rowley,** at the Globe under St Dunstan's-Church in Fleetstreet, near Temple-Bar, London. *c*1720
'Advertisement. The Sliding-Rule, mention'd in this Tract, and all other Mathematical Instruments, particularly the Tobacco-Box mentioned in the Preface are accurately made by Mr John Rowley.
The tobacco-box had a circular slide-rule on the lid. This advertisement is on the reverse of item 77.
(2) $3\frac{1}{8} \times 3\frac{1}{2}$

328 **Royal Gallery of Practical Science,** Adelaide Street, Lowther Arcade. 1824
Advertisement for an early type of science museum.
(3) $1\frac{7}{8} \times 2\frac{5}{8}$

329 **Royal Panopticon of Science and Art.** Leicester Square. 1855
Advertisement for an early type of science museum.
(3) $2\frac{7}{8} \times 3\frac{7}{8}$

330 **Thos. Rubergall,** Coventry Street, Haymark^{t}, London.
Optician, Mathematical & Philosophical Instrument Maker to his Royal Highness The Duke of Clarence.
(1) $2\frac{1}{2} \times 3\frac{5}{8}$

331 **Mr George Ruff,** 45, Queen's Road (Exactly opposite the Eye Infirmary) Brighton. 1860
Artist and Photographer.
(3) $2\frac{7}{8} \times 4\frac{3}{8}$

332 **Mr George Ruff,** 45, Queen's Road, (Exactly opposite the Eye Infirmary) Brighton.
Artist and Photographist.
(3) $4\frac{3}{4} \times 4\frac{1}{8}$ (Printed on blue paper)

333 **Ruspini,** Pall Mall. *c*1770
Dentist.
Trade card with newspaper cutting pasted on back.
(4) $3\frac{1}{8}$ x $4\frac{7}{8}$

334 **R. Rust,** Corner of St Catherines Stairs. Near the Tower of London. Removed from ye Minories.
Navigational instruments. Inventor of an artificial horizon.
(1) 7 x $5\frac{1}{2}$ *Plate 43*

Rust, *see* Spencer, Browning & Co., item 370 & Kaleidoscope sellers, item 223.

John Ruthven, *see* Kaleidoscope sellers, item 223.

Thomas Salisbury, *see* Walter Hayes, item 184.

335 **William Salmon Junior** 1733
Illustration of a scale, invented by Salmon, 'for reducing any Module being Divided into 60 minutes . . . to Feet & Inches'.
(3) $6\frac{1}{4}$ x $8\frac{1}{8}$

336 **William Salmon Junior.** 1733
Illustration of a scale, invented by Salmon, 'for the ready Dividing of Modules into Minutes'. The plate was engraved by B. Cole.
(3) $5\frac{3}{4}$ x $7\frac{1}{4}$

337 **Thomas C. Sargent,** 2, Thames St, next to the steam boat landing, Commercial Docks, Rotherhithe, London. 1800/1820
Mathematical and Optical Instrument Maker.
Navigation books.
(1) $3\frac{3}{8}$ x $4\frac{3}{4}$

338 **I. Sax,** 63, Gray's Inn Lane, Holborn. 1858
Mathematical and Philosophical Instrument Maker.
(1) $2\frac{1}{2}$ x $3\frac{5}{8}$

339 **Ed^{d} Scarlett,** at the Archimedes & Globe near S^{t} Ann's Church Soho London.
Optician to his Majesty King George the Second.
In English, French and Dutch.
(1) $11\frac{3}{8}$ x $9\frac{3}{8}$ *Plate 44*

340 **Samuel Scatliff** at Frier Bacon's Head, the corner of S^{t} Michael's-Alley, Cornhill, London.
Spectacle, & Optick-Glass Maker.
(1) $5\frac{3}{4}$ x $5\frac{3}{4}$ *Plate 45*

Schmalcalder, *see* Kaleidoscope sellers, item 223.

341 **Benj. Scott** at the Mariner & Globe over against Exeter Exchange in the Strand London. 1725
Mathematical Instrument Maker.
Shows: 'An Inspectional Plain Scale for Delineating, Architecture, Gardening &c.'. Invented by Batty Langley of Twickenham, 1725.
(2) $6\frac{3}{8}$ x $14\frac{3}{4}$

342 **B. Scott and C. Price,** at the Mariner and Globe at Exeter Exchange, in the Strand. 1718
Globes, maps & mathematical instruments.
(2) $3\frac{3}{8}$ x 3

343 **G. Scott,** 4, Butcherhall Lane, Newgate Street, London.
Mathematical Instrument Maker.
(1) $2\frac{3}{8}$ x $3\frac{1}{2}$

344 **Jere: Seller & Cha: Price.**
Sellers of navigation instruments.
(1) $4\frac{1}{2}$ x $3\frac{1}{4}$ 3 copies.

345 **John Seller** *c*1671
Hydrographer to the King.
Title page of book: 'Practical Navigation or An Introduction to the whole Art'.
(3) $6\frac{7}{8}$ x $4\frac{3}{4}$

346 **John Seller** at the Hermitage in Wapping. Dial maker.
Description and Use of the Cube Dials, very proper to set in any Window, to give the Hour of the Day.
(2) $9\frac{1}{2}$ x $3\frac{1}{2}$

347 **John Senex,** F.R.S. over against St Dunstans Church in Fleetstreet, London.
Prices of maps are given below a picture of a celestial globe.
(1) $7\frac{1}{2}$ x $4\frac{3}{4}$

348 **John Senex,** next the Fleece-Tavern in Cornhil. 1707
Globes, Mathematical Books, Maps and Instruments.
(2) $6\frac{5}{8}$ x $4\frac{3}{8}$

349 **John Senex F.R.S.,** at the Globe, over against St Dunstan's Church in Fleetstreet. 1738
Globe- and map-maker.
(2) $2\frac{3}{8}$ x $5\frac{3}{4}$

350 **Joanne Senex** R.S.S. sub Signo Globi e regione Templi S. Dunstani in Fleetstreet, Londini.
Globe, sphere and map maker.
Latin text below a picture of an armillary sphere.
(2) $5\frac{5}{8}$ x $3\frac{5}{8}$

351 **J. Senex and J. Maxwell,** at the Globe in Salisbury Court. 1714
Globe and map makers.
(2) $4\frac{7}{8}$ x $3\frac{5}{8}$

352 **J. Senex and C. Price,** next the Fleece-Tavern, in Cornhill. 1707
Globe makers.
(2) $4\frac{1}{8}$ x $3\frac{3}{8}$

353 **Mary Senex** widow of the late John Senex F.R.S. at the Globe, over-against St. Dunstan's Church in Fleet-Street.
Globes and maps.
(2) Cut into two pieces: $8\frac{5}{8}$ x $11\frac{1}{8}$ & $8\frac{3}{8}$ x $11\frac{1}{8}$

354 **Barlee Shreeve** in the Cockey-Lane, Norwich.
Haberdasher and cutler.
(4) $13\frac{3}{4}$ x $8\frac{3}{8}$

355 **Hen^{y} Shuttleworth** at S^{r} Isaac Newton's Head, No. 23 Ludgate Street, London. NB. The Oldest Shop.
Optician.
A label from an instrument box.
(1) $2\frac{3}{8}$ x $3\frac{1}{4}$, corners removed.

356 **Ch^{les} Simonneau,** A Paris, Rue de la Paix No. 6. Hôtel Mirabeau, vis-à-vis le Timbre.
Engraver. Seller of globes, spheres & maps.
(1) $2\frac{7}{8}$ x $3\frac{5}{8}$

357 **James Simons** At Sir Isaac Newton's Head, the Corner of Marylebone Street opposite Glasshouse Street, London. 1785
Mathematical Philosophical & Optical Instruments.
(1) $7\frac{3}{4}$ x $6\frac{3}{8}$

358 **J. Sisson.** *c*1735
Page from a book of illustrations of instruments made, and some invented, by J. Sisson.
(2) $7\frac{5}{8}$ x $11\frac{1}{2}$

359 **Jonathan Sisson** in the Strand.
Mathematical Instrument Maker to His Royal Highness The Prince of Wales.
(1) $8\frac{1}{2}$ x 6 *Plate 46*

360 **Jonathan Sisson** at the Sphere the Corner of Beaufort-Buildings in the Strand, London.
Mathematical Instrument Maker.
(1) $6\frac{3}{8}$ x $4\frac{3}{8}$
(Duplicate of lower half of this card: 1951–685. V 34).

361 **Jonathan Sisson** At the Corner of Beaufort-Buildings, In the Strand, London. 1737
Mathematical Instrument-Maker.
(2) $7\frac{5}{8}$ x $4\frac{1}{2}$ (Printed on both sides).

Jonathan Sisson, *see* Edward Laurence & William Gardiner, item 230.

362 **Mr Smeaton,** London. May 12, 1767
Consulting engineer.
(3) 3 x $4\frac{3}{4}$

Smith, Royal Exchange, London, & **Egerton Smith & Co.** Liverpool, *see* Kaleidoscope sellers, item 223.

363 **J. Smith.** From Fraser's, Bond Street. 17 Bath Place, New Road, Tottenham Court Road.
Practical optician. Established 1817
Inventor of the Compound Engraver's Glasses.
(2) $11\frac{1}{4}$ x $7\frac{5}{8}$

364 **James Smith** at the Brunswick Coffee-House in Fleet-Street. 1717
Artificial eye-maker and oculist.
Portrait of Smith aged 47, with rhyme below.
(3) $12\frac{3}{4}$ x $8\frac{3}{8}$

365 **John Snart,** 215, Tooley-Street, London.
Optical, Mathematical and Philosophical Instruments.
(2) $3\frac{1}{8}$ x $5\frac{1}{2}$

366 **D. Solomon,** Newgate-Street, Newcastle.
Spectacle manufacturer and working optician.
(1) $2\frac{1}{2}$ x $3\frac{1}{2}$

367 **E. Solomons,** No. 36, Old Bond Street, Piccadilly; and No. 1, Old Jewry, City.
Optician. Optical, Mathematical and Philosophical Instruments.
(2) 10 x $7\frac{1}{4}$

368 **J. Somalvico and Co.,** Hatton Garden, London.
Opticians.
Advertise a walking-stick telescope.
(1) $8\frac{3}{8}$ x $10\frac{1}{2}$. Two copies.

369 **Spencer, Browning & Co.,** 111, Minories, and 6, Vine Street, City, E.C. June 1st, 1862
Wholesale manufacturers of Mathematical, Philosophical, Meteorological, Optical, Nautical, and Surveying Instruments.
Established 100 years.
Trade catalogue and price list of telescopes.
(2) $7\frac{5}{8}$ x $5\frac{3}{8}$. Folded pamphlet, 2 pages, printed on 4 sides.

370 **Spencer, Browning & Co.** late Spencer, Browning & Rust.
Trade catalogue and price list of quadrants and sextants.
(2) $8\frac{1}{4}$ x $5\frac{1}{2}$. Folded pamphlet, 2 pages, printed on 4 sides.

371 **Spencer, Browning & Co.,** 111 Minories.
Factory at 6, Vine St, America Square, E.C.
Manufacturers of Nautical, Optical & Mathematical Instruments. Wholesale bunting factors & flag makers. Established 100 years.
Short price list of telescopes. (Captains' double night glasses) in a cover with a coloured picture of the factory.
(2) 9 x $5\frac{3}{4}$

372 **Spencer, Browning & Co.** 111, Minories, factory—6, Vine Street, America Square, London, E.C. July 1862
Manufacturers to the trade of Nautical, Optical and Surveying Instruments.
Price list of magnetic compasses.
(2) $7\frac{7}{8}$ x $4\frac{7}{8}$. Folded pamphlet, 2 pages, printed on 4 sides.

373 **Spencer, Browning & Co.** 111, Minories: factory: 6, Vine Street, America Square, London.
Wholesale Manufacturers of Mathematical, Optical, Nautical and Surveying Instruments. Established 100 years.
Description and price of the Improved Pancratic Telescope patented by the firm.
(2) 10 x 8

374 **Spencer, Browning & Co.** 111, Minories, and 6, Vine Street, City, E.C. July 1862
Wholesale Manufacturers of Mathematical, Philosophical, Optical, Nautical and Surveying Instruments. Established 100 years. Patentees of Spectroscope, Pelorus, Improved Telescopes and Improved Aneroid Barometers.

Description, with price, of the patent Long Range Aneroid Barometer.
(2) $9\frac{7}{8}$ x $7\frac{7}{8}$

Spencer, Browning, & Rust, *see* Kaleidoscope sellers, item 223.

375 **Spencer and Perkins,** No. 44, Snow Hill.
Watchmakers.
Advertisement for the Improved Pedometer or Waywiser.
(2) $8\frac{7}{8}$ x $5\frac{1}{2}$. Two copies.

376 **Spilsbury,** in Russel Court Covent Garden, London.
Engraver. Map and Printseller.
(3) $2\frac{3}{4}$ x 4

377 **Stanley,** Great Turnstile, London, England.
Mathematical instrument maker.
(1) $3\frac{1}{2}$ x $7\frac{5}{8}$

378 **Joseph Stanley,** 67 near Bell Dock, Wapping – London.
Mathematical Instrument maker, and Ship Chandler.
(1) $3\frac{1}{8}$ x $4\frac{3}{4}$

379 **J. R. & H. Stebbing,** No. 63, High Street Southampton. 1833
Opticians, And Mathematical Instrument Makers and General Manufacturers, patronised by Their Royal Highnesses the Duchess of Kent and Princess Victoria.

On the back of the sheet is an advertisement for medicinal baths in Southampton.
(2) $6\frac{7}{8}$ x 4

380 **Stebbing and Wood,** 47, High Street, (nearly opposite the market), Southampton.
Optical, Mathematical and Nautical Instrument Makers, to H.M. the Queen, the Royal Yacht Squadron, &c.

The pamphlet advertises the patent spectacles of F. B. Anderson, optician of Gravesend, with a price list.
(2) $8\frac{7}{8}$ x $5\frac{1}{2}$

381 **Christopher Stedman** At the Globe on London Bridge.
Mathematical Instrument maker.

In one copy (1951–686) the words 'Stedman Fecit' do not appear on the semicircular protractor. Two copies.
(1) $10\frac{1}{4}$ x $7\frac{3}{4}$ & $7\frac{5}{8}$ x 6 (corners cut). *Plate 47*

Stirrop, *see* Timothy Brandreth and George Willdey, item 59.

382 **Egbert Storer,** 7 Upper Barnsbury Street, Islington, London, N.
Horologist.
(1) $3\frac{3}{4}$ x 5

383 **Egbert Storer,** 46, Myddelton Square, Clerkenwell.

Describes a model to illustrate the phenomenon of the moon's rotation.
(3) $9\frac{3}{8}$ x $7\frac{5}{8}$

384 **P. Sullivan** at ye South back of S^{t} Clement's Church near Temple Barr London.

Circular label for instrument case.
(1) 1-inch diameter.

385 **Patrick Sullivan** without Temple Barr London.

A paper scale for a mercury barometer.
(3) 5 x $3\frac{3}{8}$ mutilated.

386 Sundial.

Engraving of the plate of a sundial with Latin inscription.
(3) $4\frac{1}{2}$ x $4\frac{3}{8}$

387 **Henry Sutton** in Threadneedle Streete neere the Royall Exchange. London. 1654

Illustration of diagonal scale and protractor, also a magnetic compass card for telling the time of day.
(2) $5\frac{7}{8}$ x $3\frac{3}{4}$, mutilated.

388 **H. Sutton.** 1658

Engraving of a Sutton hand quadrant of 4-inch radius.
(3) $4\frac{7}{8}$ x $5\frac{1}{4}$

Swan, *see* Mawson & Swan, item 271.

389 **Thos. Swann,** 43, Banister S^{t}, Marybone, Liverpool.
Mathematical Instrument Maker, Navigational Instruments.
(1) $3\frac{1}{4}$ x $3\frac{7}{8}$

390 **Thos. Swann,** No 3 Manns Island, Liverpool.
Hadleys Quadrants & other Instruments.
(1) $6\frac{3}{8}$ x $4\frac{1}{8}$

391 **A. Syeds & Co.** 379, Rotherhithe S^{t} near Kings Stairs.
Mathematical Instrument Makers, To His Majesty's Navy.
Inventor of the Boats Betticle.
(1) $3\frac{5}{8}$ x $2\frac{1}{2}$, corners cut. *Plate 48*

392 **John Syeds** At No. 17, near East-Lane Stairs, Rotherhithe. 1794
Navigational instruments including Syed's Patent Quadrant (illustrated).
(1) $5\frac{7}{8}$ x $4\frac{1}{8}$

393 **Robert Taylor,** High Market Place, Berwick upon Tweed. 1717
Bookseller, Stationer and Printer selling charts, slide-rules, prospect glasses etc.
(2) $5\frac{3}{8}$ x $3\frac{1}{4}$

394 **W. N. Telford,** Bridge Street Row, Chester. 1855

Optician, Watch Maker and Jeweller.
(2) $3\frac{3}{8}$ x $4\frac{1}{4}$

395 **Anthony Thompson** in Hosier Lane neare Smithfeild.

Between the engravings of the front and back of a sector is written: 'These and all other Instruments for the Mathematicall practice are made by Walter Hayes at the Crosse daggers in Moore feilds next dore to the Popes head Taverne and allso by Anthony Thompson. . . .'
(2) $4\frac{3}{8}$ x 7 *Plate 49*

396 **Antonius Thompson.**

Illustration of a sector marked: 'Delineavit Antonius Thompson' and, 'This Scheame representeth the Sector according to the last alteration by Mr Samuell Foster'.
(2) $2\frac{3}{8}$ x $9\frac{7}{8}$

397 **George Thompson & Son,** Thorner Cotton Mill near Leeds.
Manufacturers of Argands and Lamp Wicks.
(1) 2 x $2\frac{7}{8}$

Thornthwaite, *see* Horne & Thornthwaite, items 197 to 199.

398 **Ainsworth Thwaites** of Rosoman's-Row, Clerkenwell. 28 August 1764
Clock-maker.

An appeal for donations signed, amongst others, by Justin Vulliamy, Clock-maker, near St James's Gate, Pall-Mall and by John Ellicott, Watch and Clock-maker, at the Royal Exchange, because a fire has destroyed Thwaites's business.
(3) $5\frac{1}{2}$ x $5\frac{3}{8}$

399 **John Tomson** in Hosier lane, neere Smithfield in London. 1611

An advertisement cut from A. Hopton's *Topographical Glass*, 1611, reads: 'You may have any of the Instruments in this booke made of wood, in Hosier lane, neere Smithfield in London, by John Tomson. The Glasse is made in brasse, in blacke Horse-ally, neere Fleetbridge, by Elias Allin'.
(2) $1\frac{3}{8}$ x $4\frac{3}{8}$

400 **Townly,** at Walworth, St Mary, Newington, Surrey. 1780
Nurseryman.

Advertises Golden Eye-Water for dropping into inflamed eyes.
(4) $6\frac{3}{4}$ x $5\frac{1}{8}$

401 **Edw^{d} W^{m} Townly,** Walworth, Surrey.

A label to show excise duty of three pence has been paid.
(4) Cruciform. Two arms an inch wide and about 5 inches long cross each other at right angles.

402 **John Troughton,** Successor to Mr Cole, No. 136, Fleet Street, London.
Mathematical, Optical & philosophical Instrument-Maker.
(1) Oval $2\frac{1}{2}$ x $3\frac{1}{2}$. *Plate 50*

403 **J. & E. Troughton.**

The copper plate of item 402, above, has been amended to substitute 'J. & E.' for 'John', otherwise it is identical.
(1) Oval $2\frac{1}{4}$ x $3\frac{1}{8}$

404 Made by **J. & E. Troughton,** No. 136 Next the Globe Tavern in Fleet Street, London.
Mathematical Instrument Makers.

On this label for an instrument box is written in pencil: '1808 14 Feb. Index Error 5″.05 to be added'.
(1) Oval 2 x $3\frac{1}{2}$. *Plate 51*

405 **Troughton & Simms,** London.
Opticians, and Mathematical Instrument Makers to the Honourable Board of Ordnance.
(1) $1\frac{1}{2}$ x $3\frac{1}{8}$, corners cut.

406 **Chas. Tulley.**

Two receipted bills made out to Mr John Lecky, dated respectively 1814 (for £27-11-0) and 1817 (for £2-8-9).
(3) Each bill 3 x $7\frac{3}{8}$.

407 **Tho. Tuttell** at ye Kings Arms & Globe at Charing Cross & against ye Royal Exchange in Cornhill London. 1698–1700
Mathematical Instrument Maker To the Kings most Excellent Majesty. (Text in both English & French).

Design of the card similar to that of Fisher Combes, item 95.
(1) 4 x $6\frac{3}{8}$ *Plate 52*

408 **Tho. Tuttell,** Charing Cross.
Mathematical Instrum^{t} maker to ye Kings most excell^{t} Majesty.

The only clues to the maker are given by the inscriptions on three of the more than 60 instruments depicted. Each illustration is numbered as if the picture went with a catalogue.
(2) Two copies. $7\frac{1}{2}$ x $11\frac{3}{8}$ & 8 x $11\frac{1}{2}$.
Plate 53

409 **Tho. Tuttell** at the Kings-Arms and Globe at Charing-Cross, and against the Royal Exchange in Cornhill.
Mathematical Instrument Maker to the King's most Excellent Majesty.
Advertises Tuttell's Mathematical Cards containing all the Instruments generally us'd in Navigation, Surveying, Dialling, Gauging, Fortification &c.
(2) $3\frac{5}{8}$ x $3\frac{1}{4}$

410 **Tho. Tuttell** at the Kings-Arms and Globe at Charing-Cross, and against the Royal Exchange in Cornhill, London. 1698
Mathematical Instrument-maker to the King's most excellent Majesty.
Advertises Globes, Cœlestial and Terrestrial.
(2) $3\frac{1}{8}$ x $3\frac{3}{4}$
Plate 54

411 **Tho. Tuttell** at the Kings-Arms and Globe at Charing Cross, and against the Royal Exchange in, Cornhill. 1698
Mathematical Instrument-Maker to the Kings most Excellent Majesty.

Advertises an astronomical calculator.
(2) $3\frac{1}{4}$ x $3\frac{1}{4}$

412 **Tho. Tuttell** at the King's Arms and Globe, at Charing Cross. 1698
Mathematical Instrument-maker.
Advertises a newly published book on *The Description and Uses of a New Contriv'd Eliptical or Double Dial.*
(2) $2\frac{1}{4}$ x $4\frac{1}{4}$

413 **Rich[d] Vandome & Co.** No. 117, Leadenhall Street, London.
Scale-Makers to His Majestys Public Boards, Mint, Exchequer, Bank of England, & the Hon[ble] United East India Company.
(1) 3 x $4\frac{1}{2}$, mutilated, some lettering obliterated.

414 **Cornelius Varley,** 1, Charles Street, Clarendon Square. 1811
Patentee of the Graphic Telescope. Microscopes &c. Drawing, Optical, Philosophical & Chemical Instruments made to order.
(1) $2\frac{1}{2}$ x $3\frac{7}{8}$

415 **Cornelius Varley,** No 228, Tottenham-Court Road.
Advertisement for Patent Graphic Telescope with list of prices. Besides from the inventor and patentee, C. Varley, the instruments may be had of Messrs. Smith, Warner & Co. No. 211, Piccadilly; Mr Ackerman, No. 101, Strand and other Venders of Drawing Materials.
(2) $8\frac{5}{8}$ x $5\frac{3}{8}$

416 **Cornelius Varley,** Charles Street, Clarendon Square, Somers Town. 1810
Visiting card.
(3) $1\frac{5}{8}$ x $3\frac{1}{8}$

417 **Mr Cornelius Varley,** 1, Charles Street, Clarendon Square. 1811
Artist. Patents drawn and Specified.
(3) $1\frac{5}{8}$ x $3\frac{1}{8}$ Two copies

418 **Cornelius Varley,** No. 1, Charles Street, Clarendon Square, London.
Advertisement (printed in copper-plate script) for a series of Drawing Books of Boats, Shipping etc. drawn by the aid of the Graphic Telescope.
(3) $8\frac{5}{8}$ x $6\frac{3}{8}$

419 **Varley & Son,** 1, Charles Street, Clarendon Square, London. *c*1845
Opticians. Chemical & Philosophical Instrument Makers.
(1) $2\frac{1}{2}$ x $3\frac{7}{8}$ Two copies.

420 **C[t] Vaslin,** Paris, 44, Rue Mazarine, au 1[er] étage.
Seul concessionnaire du Stéréoscope Duboscq.
(2) $5\frac{5}{8}$ x $3\frac{1}{4}$

421 **Richard Wakefield,** No. 13, Southampton Buildings, Chancery Lane, Holborn.
Inventor of a patented method of tuning harpsichords, piano-fortes and spinnets. 'The Patentee has engaged with Mr Martin, jun. Mathematical Instrument Maker, Fleet-Street, (in consequence of a considerable improvement by him) for the sole makeing and executing his said invention.'
(2) Two sheets. 9 x $11\frac{1}{4}$ & $8\frac{7}{8}$ x $11\frac{5}{8}$.

422 **Mr Walker, jun.** Theatre Haymarket.
Advertisement for lecture demonstration with Eidouranion or large transparent orrery.
(3) $1\frac{3}{8}$ x $3\frac{1}{2}$

423 **J. & A. Walker,** No. 47, Bernard Street, London. Navigation & Stationery Warehouse at 33, Bottom of Pool Lane, Liverpool.
Geographers & Hydrographers. Maps, Charts, Nautical Instruments.
(1) $2\frac{7}{8}$ x $4\frac{1}{2}$

424 **John Walsh Walsh** successor to Mr Samuel Shakespear Soho & Vesta Glass Works, Birmingham Heath, Birmingham. 1855
(1) $3\frac{1}{2}$ x $4\frac{3}{4}$ *Plate 55*

425 **Julius Wanschaff,** Berlin S.W., Wartenburg-Strasse 14.
Workshop for mechanical and optical precision instruments.
(1) $2\frac{1}{2}$ x 4

426 **Jeremiah and Walter Watkins,** No. 5, Charing Cross, London.
Optical, Mathematical and Philosophical Instrument Makers to His Royal Highness The Duke of Clarence.

The name of the firm is preceded by the words: 'Repaired by'.
(1) $1\frac{1}{8}$ x $2\frac{7}{8}$

427 **J. Watkins,** No. 5, Charing Cross, London.
Optical, Mathematical & Philosophical Instrument Maker, To their Royal Highnesses The Dukes of York & Clarence, and the Hon^e^ East India Company, cf. item 428.
(1) $2\frac{3}{8}$ x $3\frac{1}{4}$ *Plate 56*

428 **Watkins & Hill.**

This card has been printed from the same plate as item 427 with the name of the firm changed and a letter 's' added to the word 'Maker'.
(1) $2\frac{3}{8}$ x $3\frac{1}{4}$

429 **Watkins and Hill,** 5, Charing Cross, London. 1842
Optical, Mathematical, Philosophical, and Chemical Instruments and Apparatus.

Advertisement for a priced catalogue of instruments.
(2) $2\frac{1}{8}$ x $3\frac{1}{2}$

Watkins & Hill, Charing Cross, *see* Kaleidoscope sellers, item 223.

430 **J. Webb,** No. 408 Oxford-Street, near Soho Square, London.
Optician. All sorts of Optical, Mathematical & Philosophical Instruments Made & Repair'd.
(1) $4\frac{5}{8}$ x 3

431 **John Webb.** Removed from the Old Established Shop, Oxford Street, to Tottenham Court Road opposite the Chapel, London.
All sorts of Optical, Mathematical, & Philosophical Instruments Made & Repaired.
(1) $8\frac{1}{4}$ x 6
Plate 61

432 **Webb & Co.,** Kilworth Cottage, Alfred Street, Maiden Lane, Battle Bridge.
Manufacturer of the Berzelius Match.

Placard headed: 'Sold Here'.
(3) 11 x 8

433 **Nathaniel Wegg,** New Cross Road, Deptford, (a few Doors from High Street).
Manufacturing chronometer, watch, and clock maker. Established ten years.
(2) $7\frac{3}{8}$ x $4\frac{5}{8}$

434 **Alex^r^ Wellington** (Successor to the late Mr James Search) At the Globe, Crown Court, St Anns, Soho, London.
Mathematical Instrument-maker to their Royal Highnesses the Dukes of Gloucester & Cumberland.
(1) $3\frac{3}{8}$ x 5. Two copies.

435 **Mr West.** Clifton (Bristol).

Lecturer invites visitors to Observatory at Clifton where there are astronomical instruments including a Cassegrainian telescope by Tully of London and a Transit Instrument by Troughton. Prices of admission.
(3) $8\frac{1}{8}$ x $6\frac{5}{8}$

436 **West.** Fleet Street, London 9th Nov. 1837
Optician.

Picture of West's shop decorated on the occasion of the visit of Queen Victoria to the City of London—used as an advertisement for West's Treatise on the Eye.
(2) $4\frac{3}{4}$ x $2\frac{7}{8}$

437 **F. West,** 83, Fleet Street, near St Bride's Church.
Philosophical Instrument Maker.

Advertises small air-balloons and instructions for filling them with hydrogen.
(2) $5\frac{1}{2}$ x $8\frac{3}{4}$

438 **Francis West,** (Successor to Mr Adams), 83, Fleet Street, London.
Optician to his late Majesty.
(2) $5\frac{1}{8}$ x $2\frac{7}{8}$

439 **Francis West,** (Successor to Mr. Adams, Optician to His Majesty's) 83, Fleet Street, near St Bride's Church. *c*1831
(2) $2\frac{7}{8}$ x $5\frac{1}{2}$

440 **F. L. West,** 39, Southampton Street, Strand.
Optician & Instrument Maker.
Small label for spectacle case.
(1) Oval with axes $\frac{7}{8}$ x $1\frac{1}{4}$

Westley, *see* Carpenter & Westley, items 72 to 75.

441 **Westwood,** No. 23, Princes Street, Leicester Square, London. May 1824
Chronometer, Watch and Clock Maker.
Watches used on Capt. Parry's last Voyage.
(1) $2\frac{1}{2}$ x $3\frac{1}{2}$

442 **M. White.**
'M. White's Sliding Rule' appears on an engraved illustration of a slide-rule.
(3) 2 x $12\frac{3}{8}$

443 **D. M. Whitehouse.** (Many years Manufacturer to Bradbury and Rubergall). 1, Castle-Street, Leicester-Sq.
Spectacle maker.
Advertisement and price list.
(2) $6\frac{3}{4}$ x $7\frac{3}{8}$

444 **Samuel Whitford.** (The Original Shop). At the Three Spectacles, No. 27, Ludgate-Street, near St Paul's, London.
Optical, Philosophical, and Mathematical-Instrument-Maker.
(1) $10\frac{1}{2}$ x $6\frac{3}{4}$
Plate 58

Whitford, *see* John Bleuler, item 55.

445 **Willdey** at the Corner of Ludgate-Street, next St Paul's, London.
Optical instrument maker and retailer of instruments, toys, jewellery and prints.
(1) 11 x $12\frac{1}{4}$

George Willdey, *see* Timothy Brandreth and George Willdey, items 59 and 60.

446 **George Willdey and Timothy Brandreth.** At the Archimedes and Globe, Spectacle and Toy-Shop, next the Dog-Tavern in Ludgate-street; a pair of large Globes being on the Posts before the Door.
(3) Photograph, 8 x $4\frac{1}{2}$

447 **Robert Williamson,** Near the Exchange, Liverpool.
Stationer and Bookseller sells Chirurgical, Optical, Philosophical, Mathematical and Musical Instruments.
(1) $8\frac{3}{8}$ x $5\frac{1}{8}$

448 **(J. Wilson).**
A manuscript describing illustrations of a microscope which J. Wilson inserted in his pamphlet of 1706.
(3) $3\frac{7}{8}$ x $5\frac{1}{4}$

449 **W. Wilton,** St Day, Cornwall.
Mathematical Philosophical & Optical Instrument Maker.
(1) $3\frac{1}{4}$ x $4\frac{7}{8}$, corners cut off.

Wing, *see* Heath and Wing, item 188.

450 **Winter.** Late with Frasers. No. 9, New Bond Street. 1812
Working optician.
(1) $2\frac{1}{8}$ x 3

451 **T. B. Winter,** 55, Grey Street, Corner of High Bridge, Newcastle on Tyne.
Manufacturer of Mathematical, Nautical, Philosophical and Optical Instruments.
Spectacles.
(1) $3\frac{1}{8}$ x $4\frac{1}{2}$

Wood, *see* Horne, Thornthwaite, and Wood, item 197

452 **Edward George Wood,** 117 Cheapside (late of 123, Newgate St) London.
Optician, Manufacturer of Photographic, Chemical, Mathematical, & Philosophical Instruments, & Apparatus.
(1) $2\frac{3}{8}$ x $3\frac{5}{8}$ (corners rounded by cutting)

G. Wright, *see* Gregory & Wright, item 168.

453 **T. Wright** at ye Orrery & Globe in Fleet-street London.
Instrument maker to His Majesty.
Small label for sticking inside instrument box.
(1) $2\frac{1}{8}$ x $2\frac{1}{4}$

454 **T. Wright & Husbands**
Above Wright's label (exactly as item 453), a label has been attached to the same instrument box for 'Husbands, 8, St Augustine's Parade, Bristol'.
Husbands presumably repaired or re-sold an instrument made by Wright.
(3) Photograph, $3\frac{7}{8}$ x $2\frac{5}{8}$

455 **Thomas Wright** at the Orrery & Globe next the Globe & Marlborough Head Tavern in Fleet Street London. 1718
Mathematical Instrum^{t} Maker to his Royal Highn^{s} George Prince of Wales.
(1) $6\frac{1}{2}$ x $3\frac{7}{8}$ *Plate 59*

456 (**Thomas Wright**). The Orrery & Globe. 1718
Impression from an old wood-cut block probably used for newspaper advertisements. Design similar to the upper part of item 455.
(3) $5\frac{5}{8}$ x $4\frac{7}{8}$

457 **Thomas Wright** at the Orrery and Globe in Fleet Street London.
Mathematical Instrument Maker to His Majesty.
(3) Photograph, $6\frac{3}{8}$ x $4\frac{5}{8}$

Tho. Wright, *see* Richard Cushee, item 110.

458 **Mr Wyld's** large model of the Earth.
Great Globe, Leicester Square.
Advertisement for half-hourly demonstrations. Admission one shilling.
(3) $7\frac{1}{2}$ x 5

459 **Mr Wyld,** Leicester Square.
Colossal Globe. Large model of the Earth is now open.
(3) $3\frac{7}{8}$ x $4\frac{5}{8}$

460 **John Yarwell,** who hath lived many Years in St Paul's Church-Yard, is now removed to the Sign of Archimedes in Ludgate-street, the first Spectacle-Shop next Ludgate. 1697
Spectacles and optical instruments.
(1) $8\frac{3}{4}$ x $6\frac{3}{8}$
Plate 60

461 **John Yarwell,** at the Archimedes and 3 pair of Golden Spectacles in Ludgate-street, the Shop next Ludgate, London. 1697
Makes True Spectacles and other optical instruments.
The picture used at the top of item 460 is repeated here with the addition of three pairs of spectacles on the bridges of which appear respectively the three words 'the', 'Wright' & 'True'. The text is a redraft of that of item 460.
(1) $9\frac{5}{8}$ x $7\frac{7}{8}$

462 **John Yarwell,** at ye Archimedes and Spectacles in St Pauls Church yard, London. Optical Instrument Maker. 1683
(3) Photograph. $5\frac{1}{4}$ x 8. Two copies.

463 **John Yarwell** at the Archimedes and Three Golden Prospects, near the great North-Door in S. Paul's Church-Yard: London. 1692
Optical instrument maker.
(2) $4\frac{3}{4}$ x $6\frac{1}{8}$
Plate 57

464 **John Yarwell,** at the Archimedes and Three Golden Prospects, in St Paul's Church-Yard, London. 1694
Optical instrument maker.

Advertisement from 'The Present State of Europe', Vol. 5, Sept. 1694.
(2) $3\frac{1}{8} \times 5\frac{1}{8}$

465 **John Yarwell** at the Archimedes and Three Golden Prospects, in St Paul's Church-Yard, London. 1694
Maker of True Spectacles and other optical instruments.

Advertisement from 'The Present State of Europe', Vol. 5, Nov. 1694.
(2) $2\frac{7}{8} \times 4\frac{3}{4}$

Yarwell, *see* Timothy Brandreth and George Willdey, item 59.

466 **A. Yeates,** 12, Brighton Place, New Kent Road, London.
Mathematical Instrument Maker.
(1) $2\frac{3}{8} \times 3\frac{1}{8}$

467 **Yeates & Son,** 2, Grafton Str^{t}, Dublin.
Optical, Mathematical & Philosophical Instrument Makers.

An adaptation of the trade cards used by Bleuler, item 52, and by Field, item 148.
(1) $2\frac{1}{4} \times 3\frac{1}{2}$

468 **Yeates & Son,** Dublin.

Engraved picture of a measuring microscope removed from the instrument box containing it.
(3) $6\frac{3}{4} \times 5\frac{1}{8}$

469 **H.R.H. the Duke of York,** 4, Thornhill Crescent, Barnbury, N.
Leather case manufacturer.

Manuscript bill with printed billhead, dated August 20th, 1876, for £1-3-0 for folder sheaths, etc., supplied to Messrs. Hudson & Son.
(3) $4\frac{1}{8} \times 5\frac{1}{8}$

Reference numbers for catalogue items

Inventory Number Almost all the items have been given a number in the Science Museum's inventory. Cards acquired together in a batch were often given a single inventory number which is common to all in the batch.
Location Most of the items are contained in seven albums numbered I to VII, and the location is indicated by the album number and page. Mr. Court gave the Museum two albums of cards (numbers I & II) in which he had numbered the items serially. His numbers, preceded by C.C. (Court Collection), are given in the location column.
For those cards which are still pasted in numbered instrument boxes, the box number is given. The more substantial cards are glazed and framed, and as their location may vary it is not stated in the list.

Photographs Where the Museum has an official photographic negative of any item, the negative number is given in the fourth column.

Catalogue No.	Science Museum Inventory No.	Location	Science Museum Negative No.	Catalogue No.	Science Museum Inventory No.	Location	Science Museum Negative No.	Catalogue No.	Science Museum Inventory No.	Location	Science Museum Negative No.
1	1934–121	C.C.75	881/70	23	1934–121	C.C.118		46	1951–685	III 46	
2	1934–121	C.C.8		24	1951–687	III 18		47	1934–121	C.C.55	
3	1934–121	C.C.90		25	1951–687	III 20		48	1948–397	III 48	
4	1934–121	C.C.60		26	1934–121	C.C.60		49	1934–121	C.C.79	
5	1934–103		1005	27	1918–247		681/68	50	1951–685	III 50	
6	1951–685	III 8	1112/52	28	1934–116		836/67	51	1934–122	C.C.146	
7		VII 26		29	1934–122	C.C.156		52	1934–122	C.C.147	1013
8		VI 1		30	1934–122	C.C.157		53	1934–122	C.C.148	1014
9		VI 3	2495	31	1948–397	III 24		54	1934–121	C.C.59	
10	1934–121	C.C.35		32	1951–685	III 26a		55	1934–121	C.C.138	
11	1951–685	III 10		33	1951–685	III 28		56	1951–685	III 52	
12		VII 15	384/68	34	1951–687	III 30a		57	1948–397	III 26b	
13	1934–121	C.C.13		35	1951–687	III 30b	883/70	58	1934–121	C.C.17	
14	1934–121	C.C.28		36	1948–397	III 32		59	1951–687	III 54	
15	1951–685	III 14a		37	1948–397	III 34		60	1951–687	III 56	884/70
16	1951–685	III 14b		38	1951–685	III 36		61	1934–112		69/39
17	1934–122	C.C.159	274/69 1010	39	1934–121	C.C.122		62	1951–685	III 58a	
				40	1951–685	III 38		63	1934–122	C.C.179	
18	1934–99		830/67	41	1951–685	III 42	755/68	64	1934–108		68/39
19	1948–397	III 22	968/68	42	1951–685	III 44		65	1934–121	C.C.77	
20	1948–397	III 16		43	1934–122	C.C.172	275/69	66	1948–397	III 58b	756/68
21	1934–101		501/68	44	1948–397	III 40		67	1951–687	III 60	
22	1934–122	C.C.153		45	1928–135	Box 803	714/68	68	1934–121	C.C.84	

Catalogue No.	Science Museum Inventory No.	Location	Science Museum Negative No.
69	1934–121	C.C.25	
70	1951–687	III 62	
71	1934–124		601/50
72	1948–397	III 64a	
73	1934–121	C.C.97	
74	1948–397	III 64b	
75	1948–397	III 66	
76	1934–121	C.C.110	
77	1934–121	C.C.113	
78	1934–121	C.C.47	
79	1911–229	Box 382	690/68
80	1925–389	Box 730	694/68
81	1934–121	C.C.123	
82	1934–121	C.C.82	
83	1951–691		33/53
84	1934–121	C.C.71	
85	1934–121	C.C.73	
86	1934–121	C.C.23	
87	1951–687	III 68	
		III 69	
88	1951–685	III 70	
89	1948–397	III 72	
90	1934–121	C.C.128	
91	1951–685	III 74	757/68
92	1934–122	C.C.171	
93	1934–121	C.C.48	
94	1911–232	Box 389	708/68
95	1951–685	III 76	758/68
96	1934–109		833/67
97	1934–122	C.C.175	
98	1951–687	III 78	
99	1951–687	III 80	
100	1951–685	III 82a	
101	1934–119		1007
102	1934–122	C.C.167	
103	1951–690		
104	1934–122	C.C.177	
105		VII 32	
106	1934–115		70/39
„	1951–685	III 88	
107	1934–121	C.C.106	
108	1934–121	C.C.52	
109	1951–685	III 86	
110	1951–685	III 84	
111	1934–121	C.C.15	
112	1951–685	III 82b	
113	1934–121	C.C.2	
114	1934–121	C.C.46	
115	1951–687	III 90	
116	1934–121	C.C.122	
117	1934–121	C.C.53	
118	1934–121	C.C.56	
119	1951–685	III 94	
120	1948–397	III 92	885/70
121	1951–685	III 96a	
122	1948–397	III 96b	
123		III 98	
124	1951–685	III 98	
125	1934–121	C.C.92	
126	1948–397	III 100	886/70
127	1948–397	III 102	
128	1934–121	C.C.78	
129	1934–121	C.C.83	
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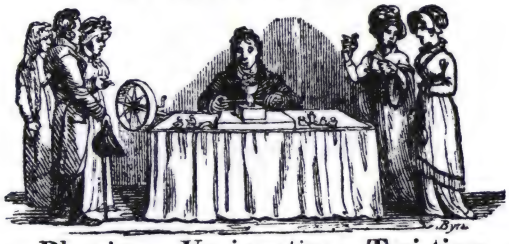

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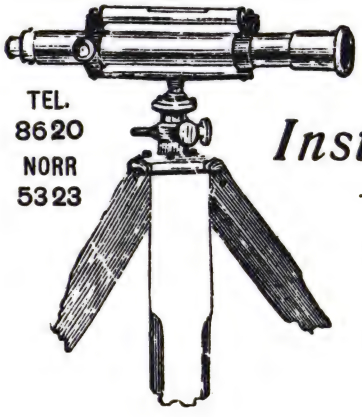

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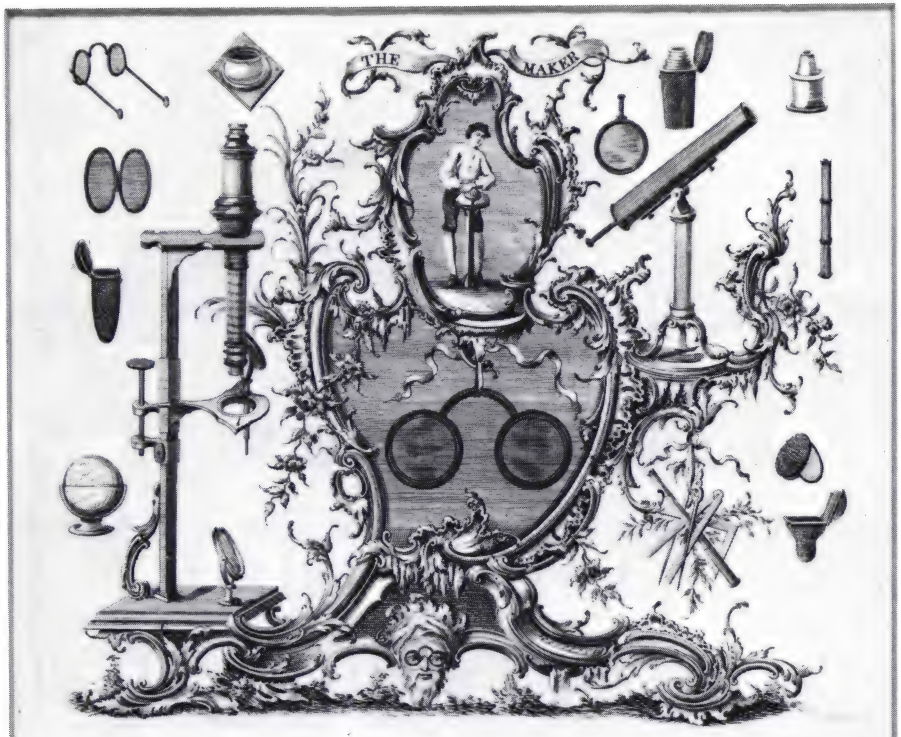

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MAKES and SELLS, (Wholeſale and Retail) SPECTACLES and READING-GLASSES, either of *Brazil*-Pebbles, White, Green, or Blue Glaſs, ground after the trueſt Method, ſet in neat and commodious Frames.

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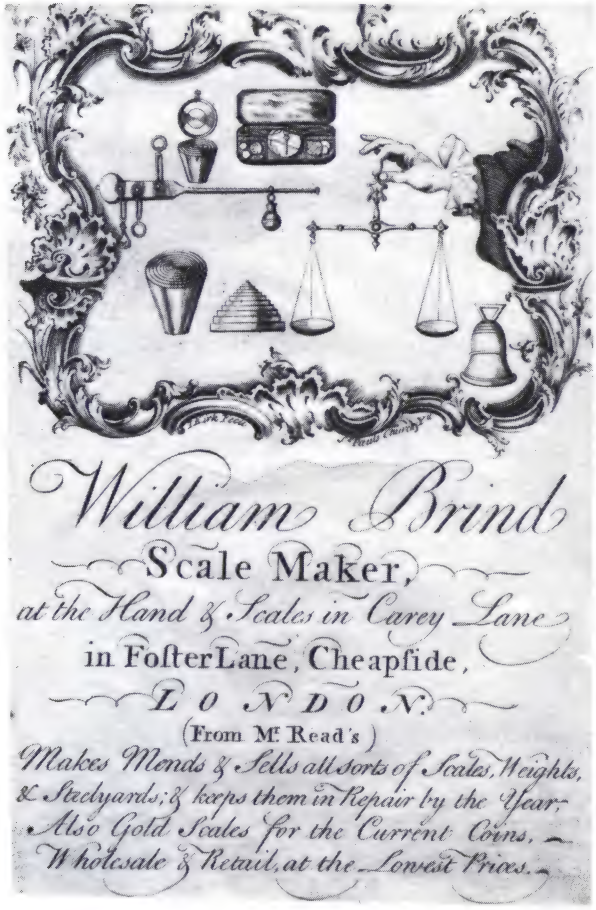
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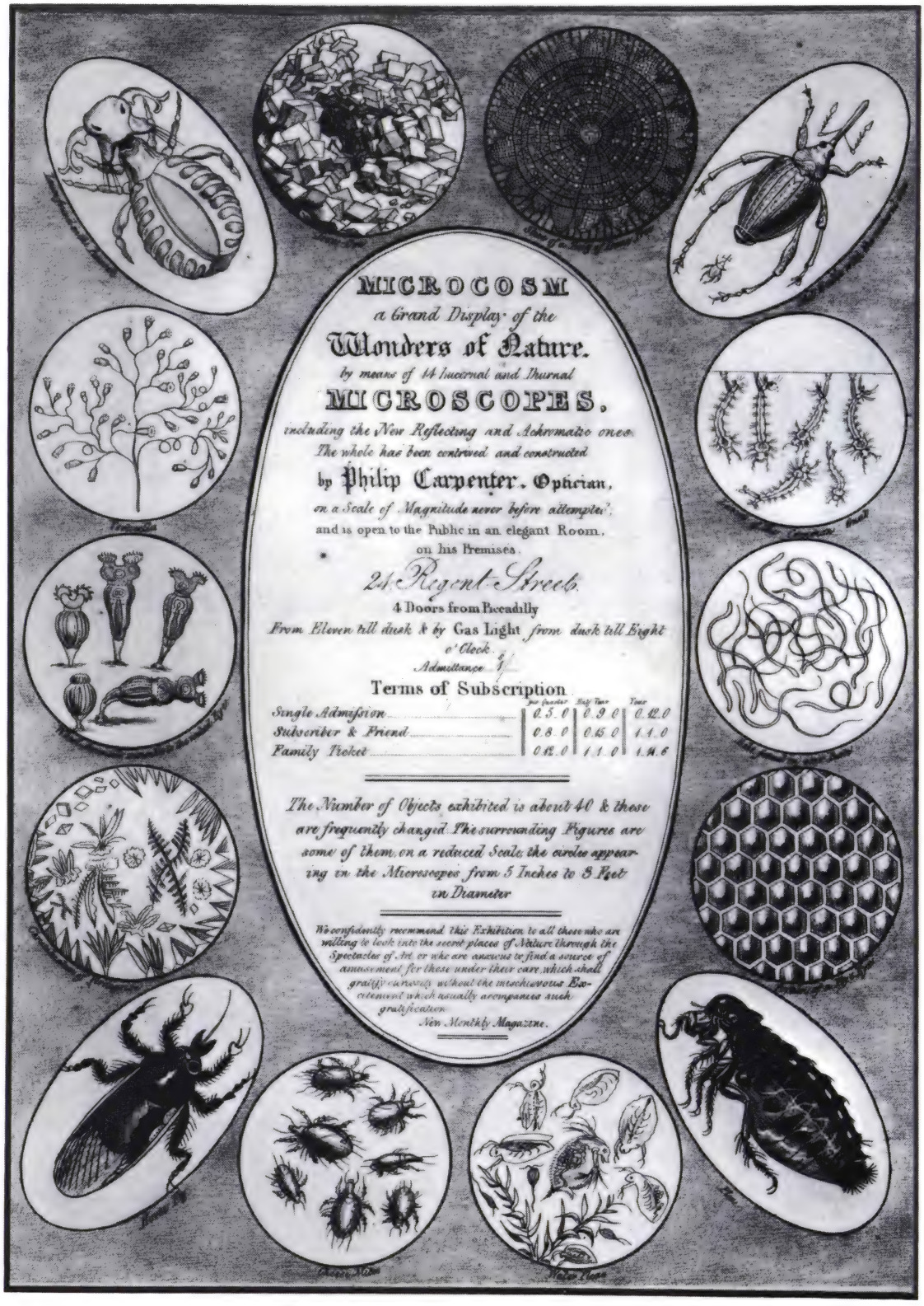
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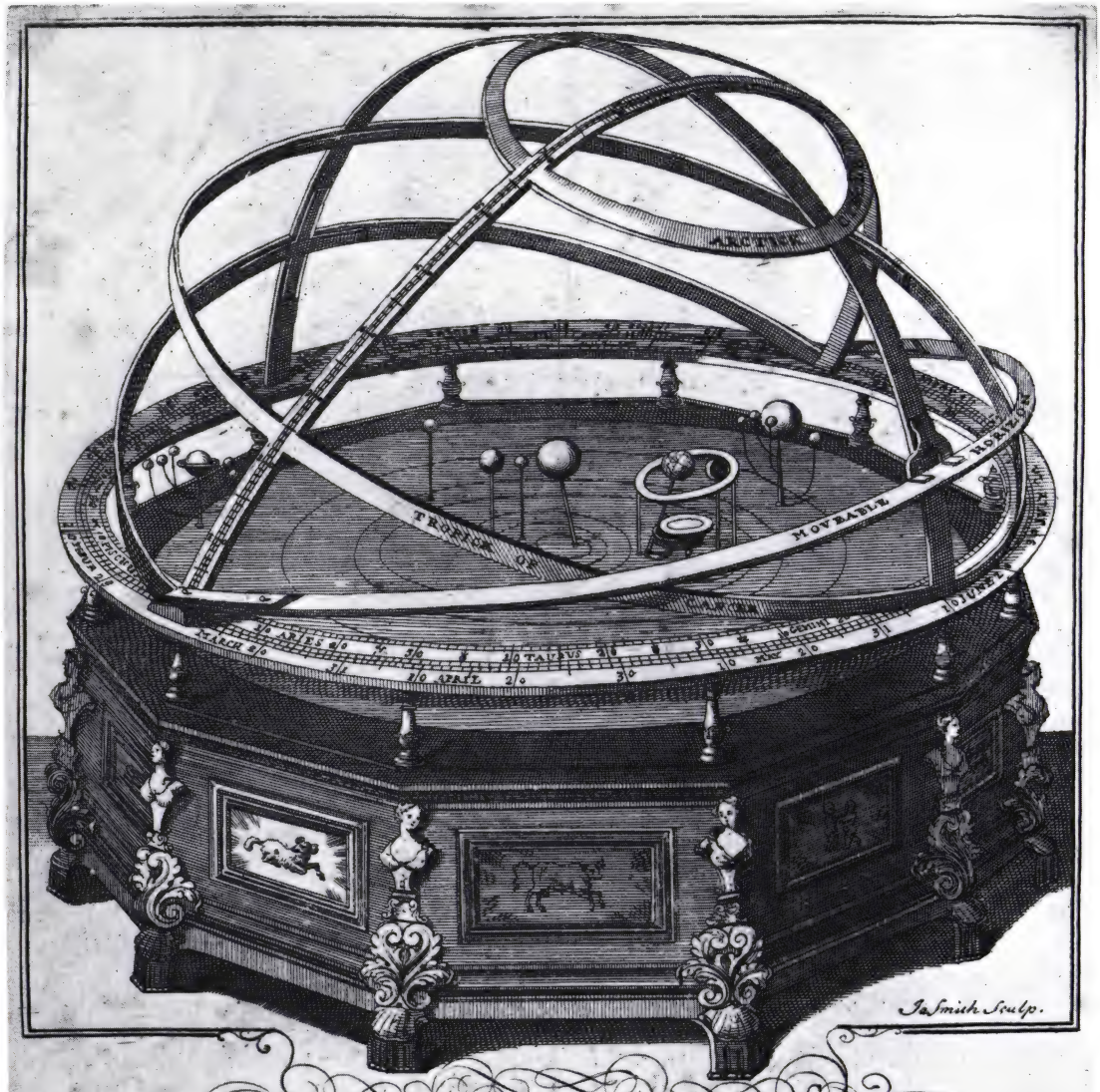

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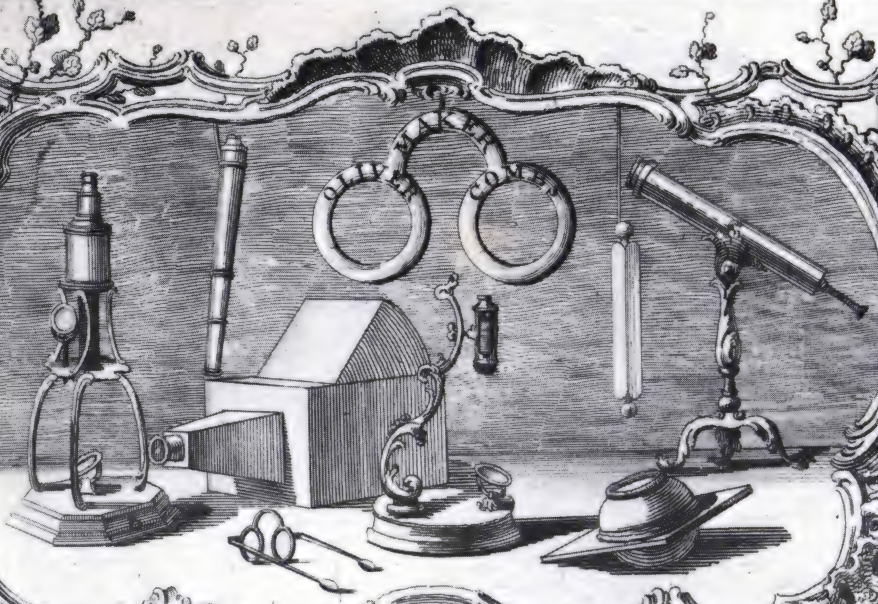

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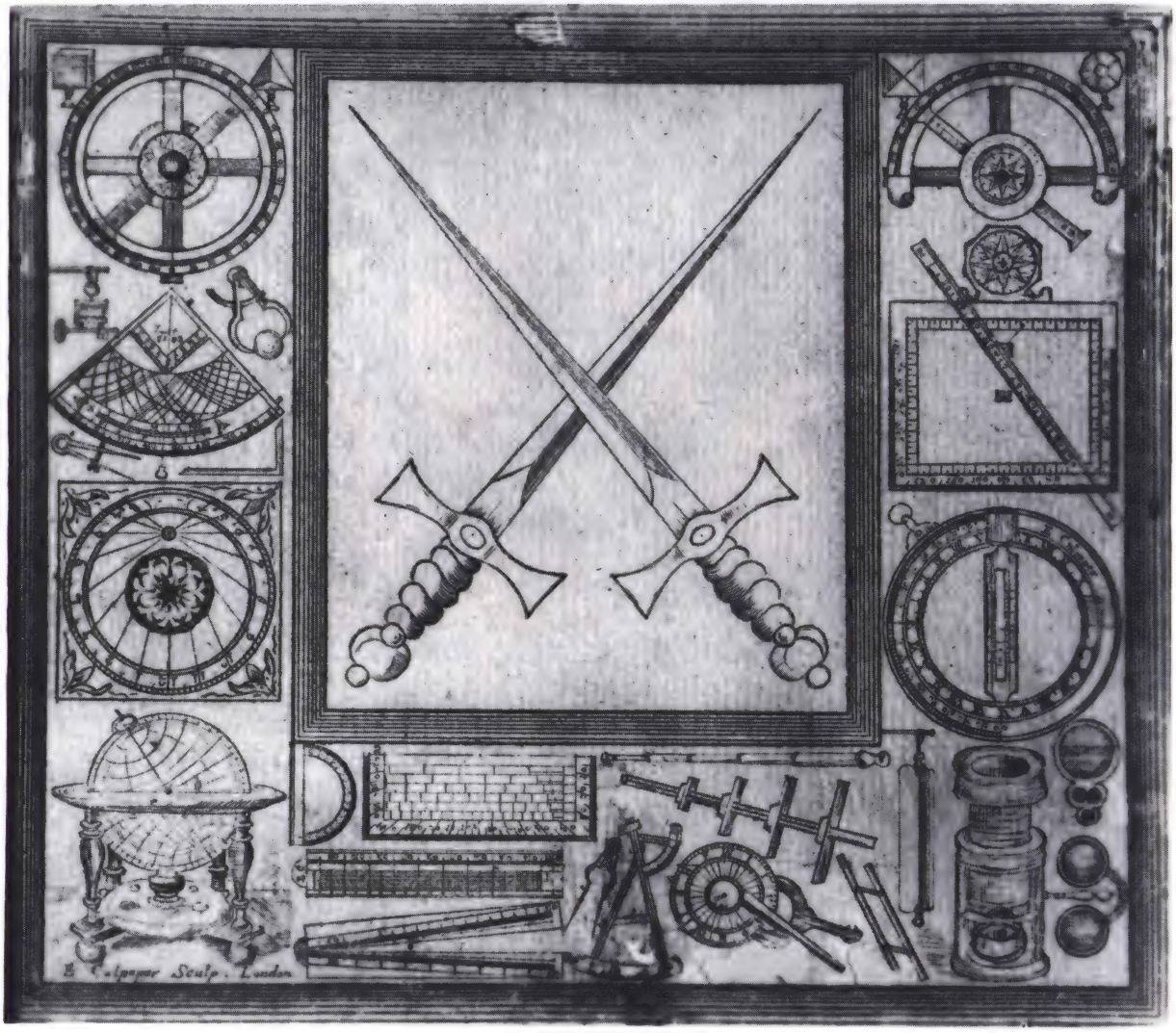

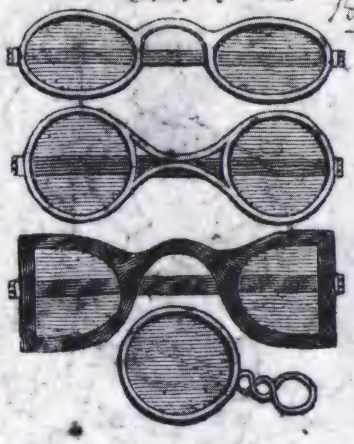

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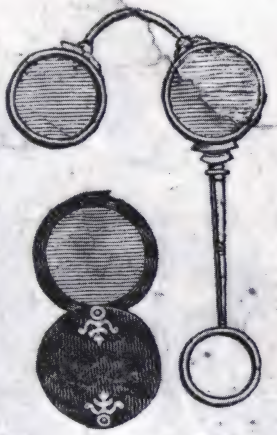

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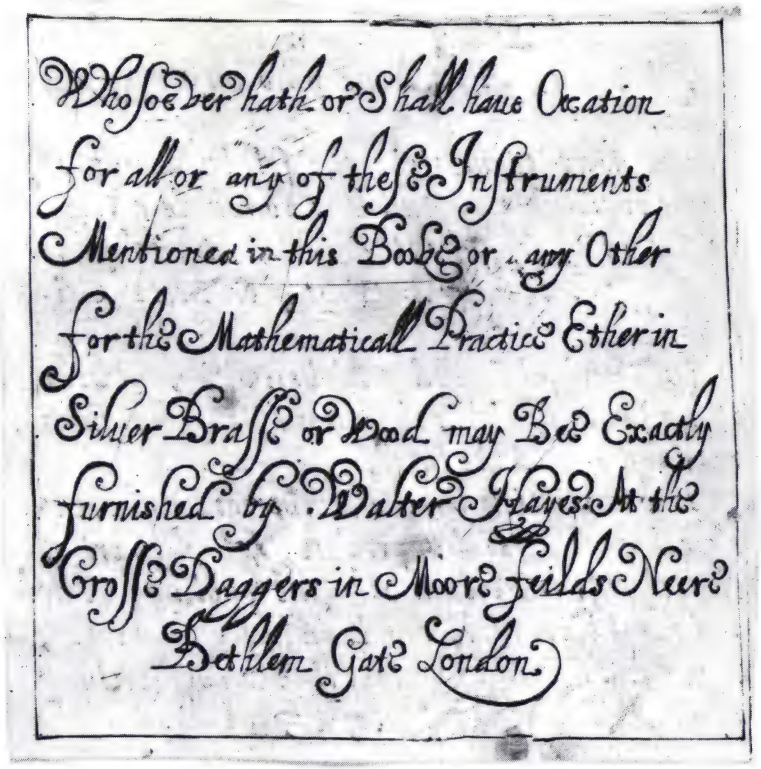
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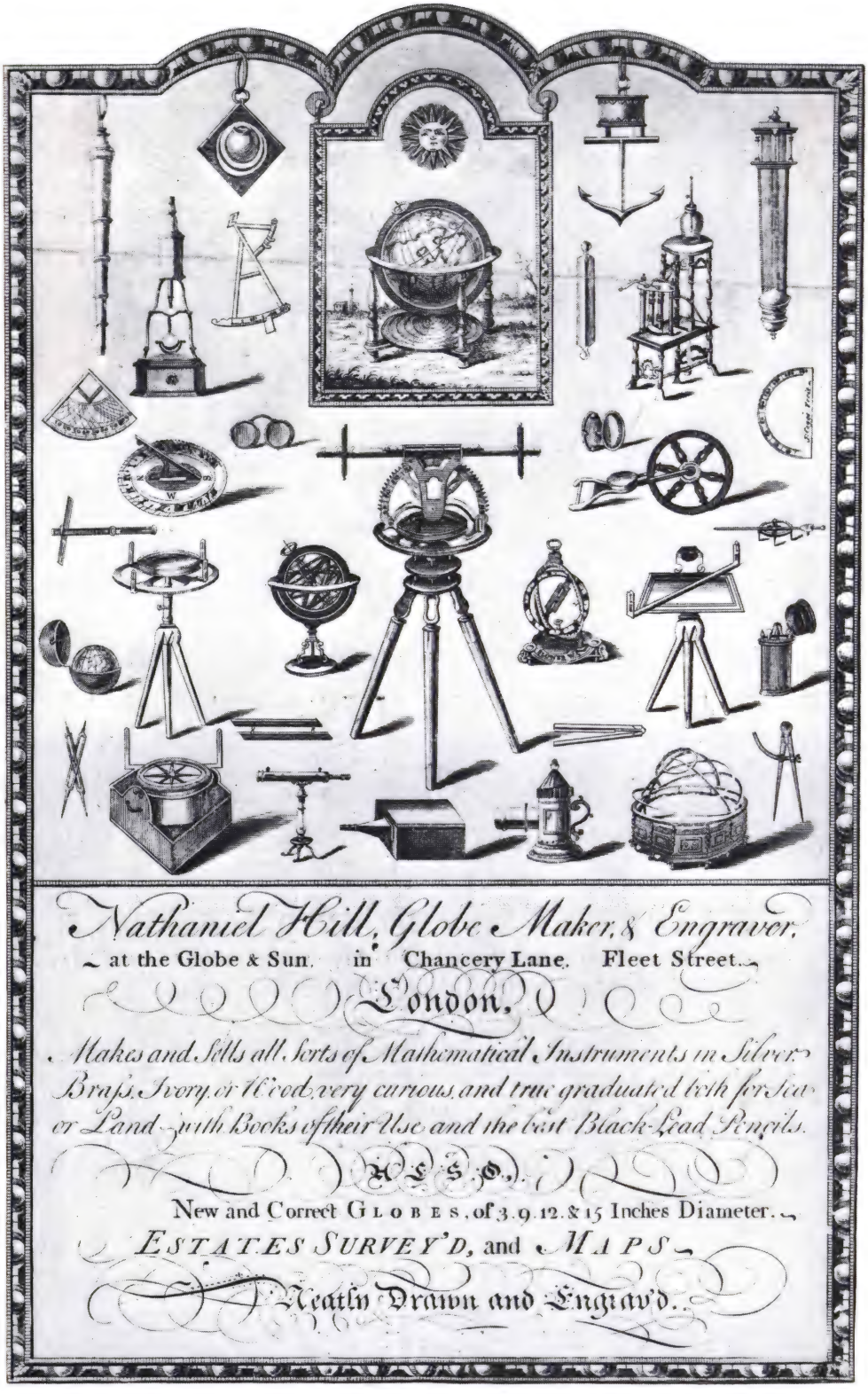
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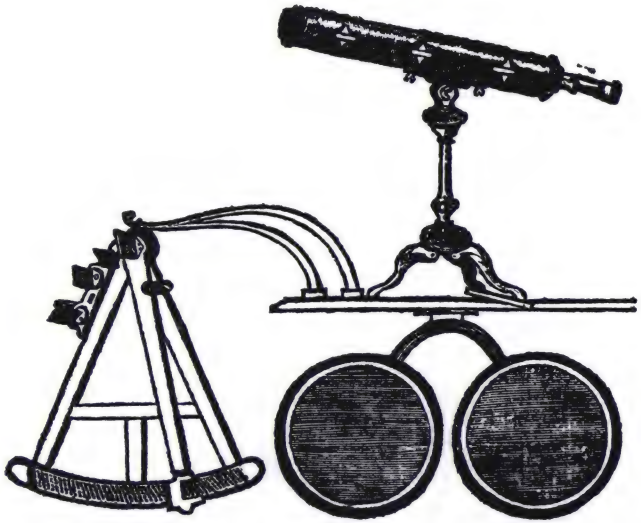

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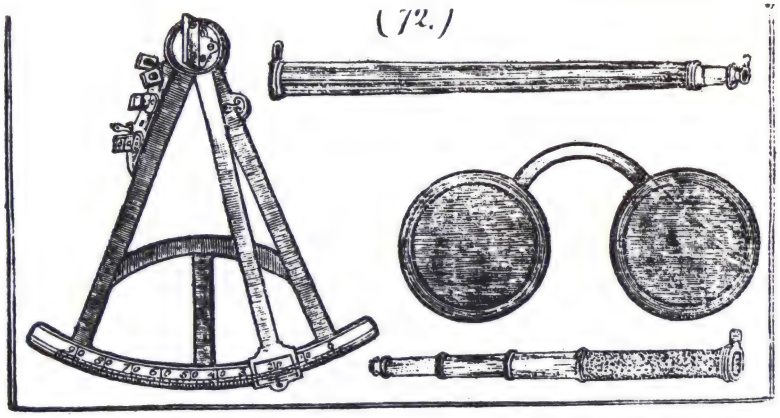

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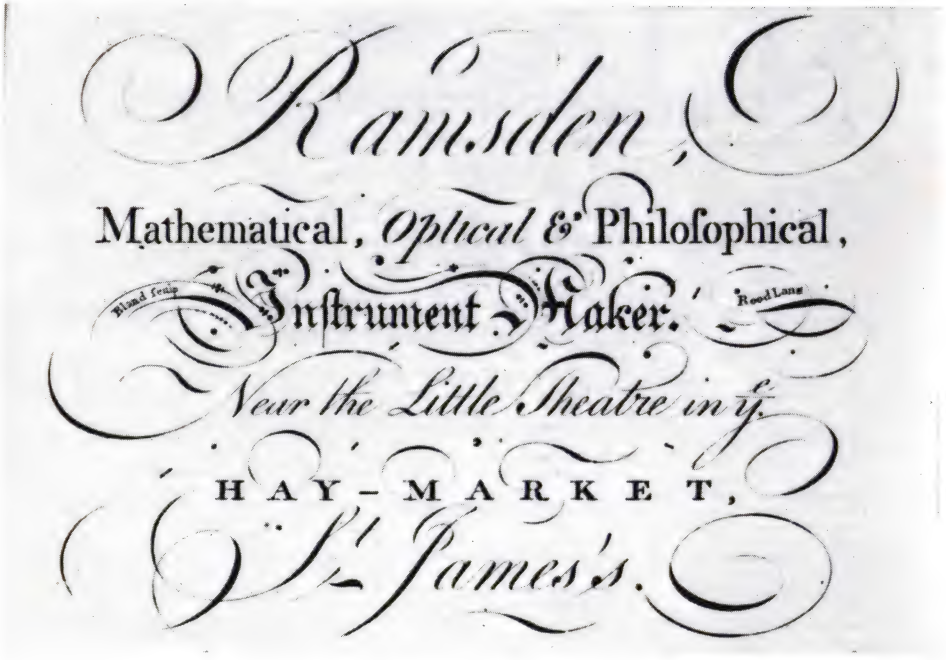
Ditto, larger ——	1	11	6
Cylindrical convex, and its ſix pictures ——	2	12	0
A pocket camera ——	0	10	6
Ditto, larger	0	15	0
Camera obſcura, in form of a book, the beſt ——	4	4	0
The ſame adapted to view prints	5	5	0
Diagonal mirror, or optic machine ——	0	15	0
Ditto, for two people —	1	11	6
Ditto, in form of book, —	1	15	0
The beſt coloured views paſted, at per dozen ——	0	18	0

MATHEMATICAL INSTRUMENTS.

Hadley's octant ——	1	10	0
Ditto, ivory Ar. and Nonius	2	2	0
Ditto, braſs index ——	2	12	6
Ditto in ebony ——	3	3	0
Small braſs octant ——	2	12	6
Twelve inch ditto ——	5	5	0
Eighteen inch ditto edge bars	10	10	0
Davis's and all other quadrants, from 5s. to ——	0	12	0
Theodolites, from 5l. 5s. to	25	0	0
Circumferenter ——	2	10	0
Plane table, ball, ſocket, and ſtaff	3	10	0
Gunter's chains and meaſuring tapes, of all prices			
Caſes with drawing Inſtruments, from 7s. 6d. to ——	9	9	0
Protractors from 1s. 6d. to	4	4	0
Proportional compaſſes —	1	5	0
Ditto larger ——	1	10	0
Pantographer in ebony ——	2	12	6
Pantographer, all braſs —	4	14	6
Gunner's callipers ——	1	11	6
Parallel rules, from 3s. 6d. to	2	12	6
Horizontal ſun dials, 6s. to	10	10	0
Ring dial univerſal ——	0	12	0
Ditto, fix inches diameter —	0	18	0
Nine inches, beſt ——	5	5	0
Ditto on pedeſtal, very curious	20	0	0
Azimuth compaſſes — and all other ſorts and inferior prices	5	5	0
Artificial magnets, to lift any weight not exceeding three hundred	1	1	0
	2	2	0
	3	3	0
Perambulator, or meaſuring wheel ——	6	6	0
Aſtronomical quadrants, from 15l. 15s. to ——	150	0	0
Globes 17 inches, the pair	6	6	0
Twelve inches —	3	3	0
Nine inches —	2	2	0
Six inches ——	1	11	6
Three inches, for pockets	0	9	0

PHILOSOPHICAL INSTRUMENTS.

Beſt barometer ——	1	11	6
Ditto ——	2	2	0
Barometer with thermometer	2	12	6
The ſame with thermometer and hygrometer ——	3	3	0
Beſt ſort —— ——	4	4	0
Fadrenheit's beſt thermometer	1	11	6
Ditto —— ——	1	1	0
Botannic thermometer —	1	1	0
Ditto for ——	0	16	0
Beſt hydrometer, with all its weights ——	1	1	0
Hydroſtatic balance —	1	16	0
An electrical machine —	3	13	6
Ditto, large ——	5	5	0
Electrometers for ditto —	0	10	6
Air pump all braſs double barrel	3	13	6
Ditto ——	5	15	6
Ditto, mahoganyand braſs, large	7	7	0
Ditto, the moſt compleat	9	9	0
Apparatus for ditto, from 1l. 11s. 6d to ——	9	9	0
A pirometer to try the expanſion of metals ——	2	12	6



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39 Ramsden
catalogue no.311

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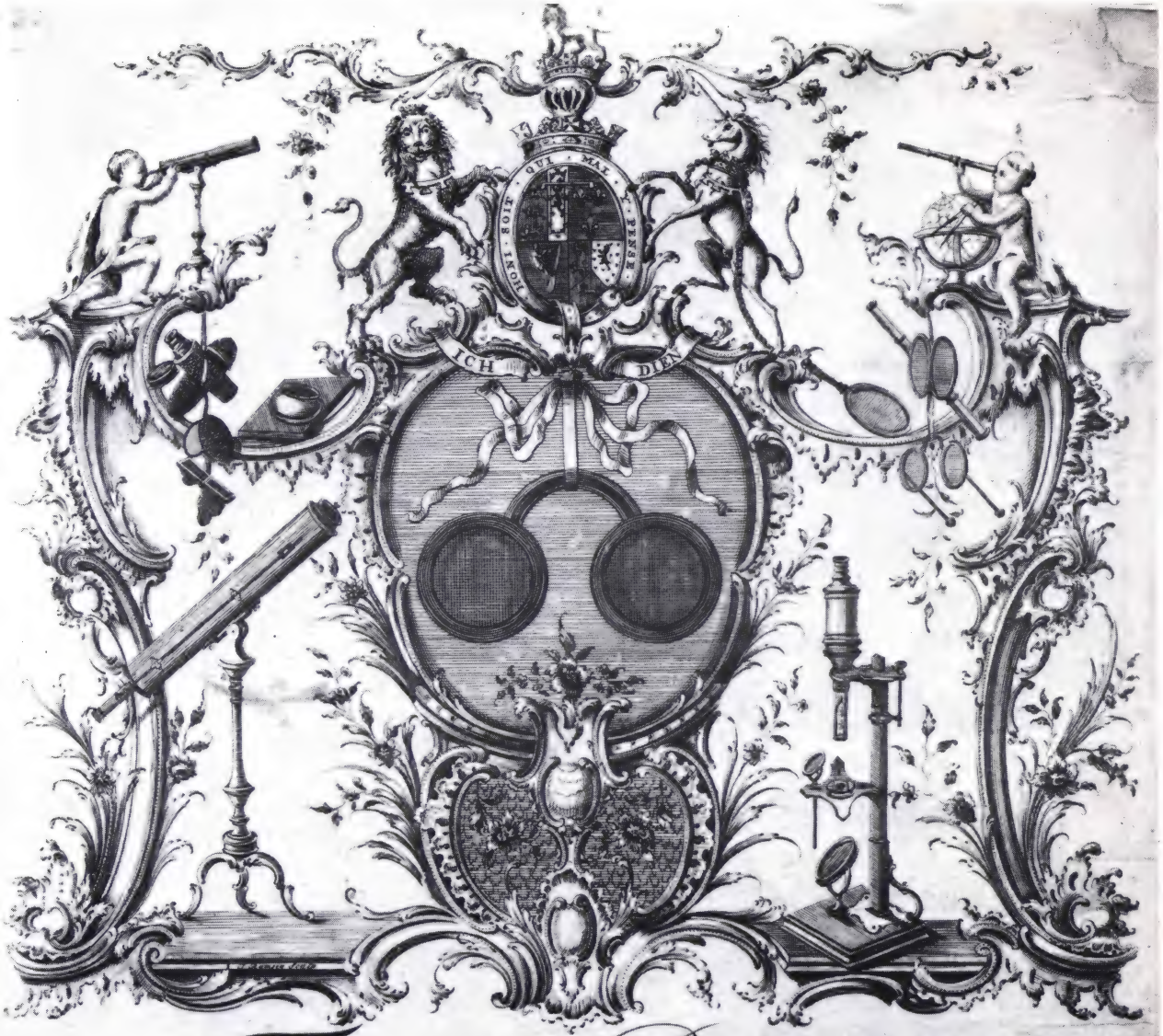
40 Manuel Recarte
catalogue no.314

right
41 Thomas Ribright
catalogue no.316



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at the Golden Spectacles in the Poultry,

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late Apprentice to Mr Scarlett

optician to his MAJESTY.

At Sr. Isaac Newtons Head, & Golden Spectacles,

against York Buildings, in ye Strand.

Grindeth all manner of Optick Glasses, & Makes Spectacles after a new Method. Marking the Focus of ye Glass upon the Frame (approv'd by the most learned in Opticks, as the exactest way of fitting different Eyes) Reading Glasses of all Sorts, as well as Rock Crystal, as White Glass. The most short sighted he fits to ye utmost exactness. Concave & Convex Mirrors, Magick Lanthorns, Camera Obscura, Sky Opticks, Prisms for Sr. Isaac Newtons Experiments of Light & Colours, Sells Barometers, Thermometers, Refracting Telescopes, & Perspectives of all Lengths, & ye greatest Variety of single & double Microscopes, Reflecting Telescopes, Gregorean & Newtonean of all lengths.

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catalogue no.317

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AN ARTIFICIAL HORRIZON
To be Used When the Real Horrizon
Is Thick & Obscure Or Instead of
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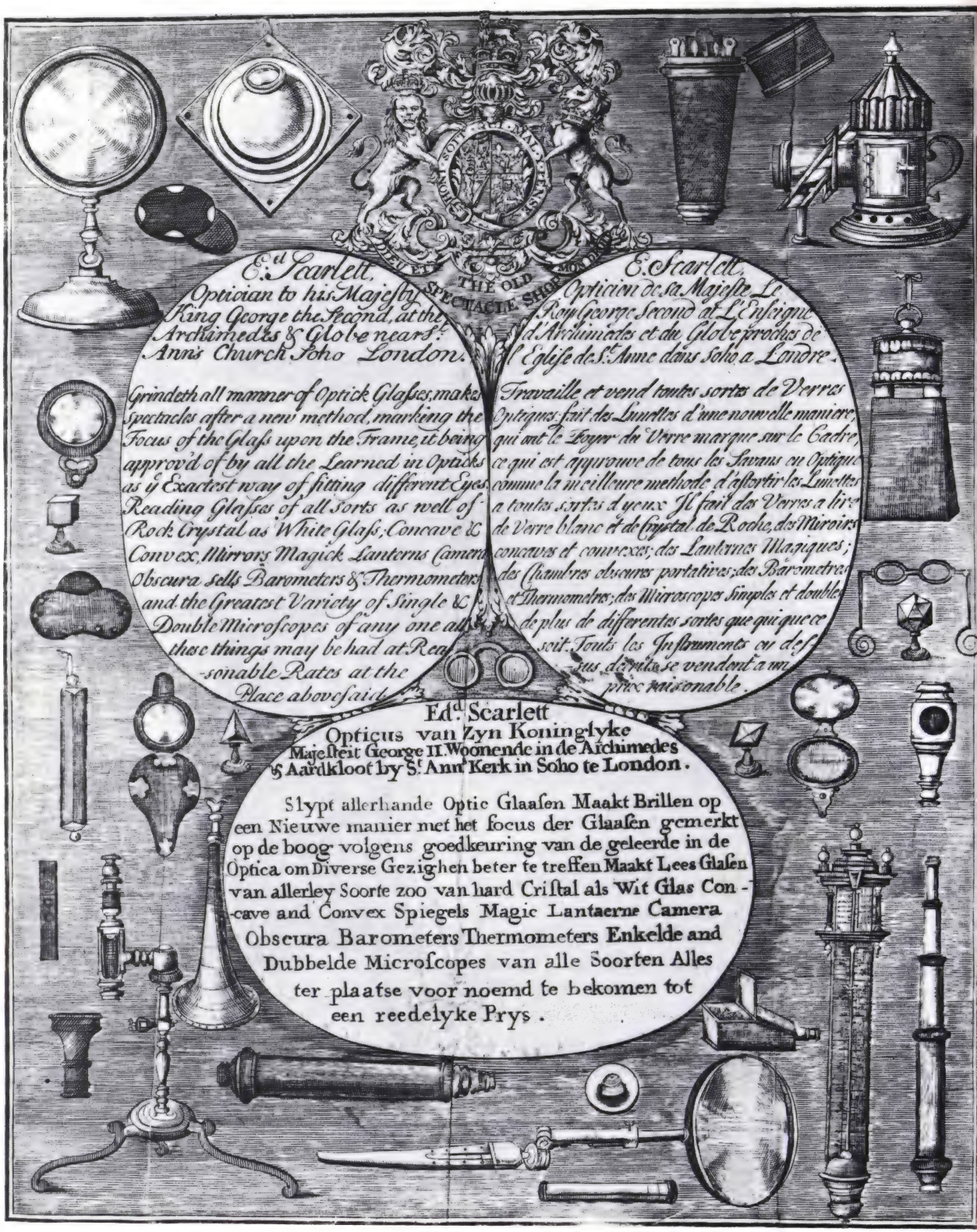
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Obscura Barometers Thermometers Enkelde and
Dubbelde Microscopes van alle Soorten Alles
ter plaatse voor noemd te bekomen tot
een reedelyke Prys.

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44 Edward Scarlett
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below
45 Samuel Scatliff
catalogue no.340

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Makes & Sells Wholesale & Retail ye finest Chrystal Spectacles,
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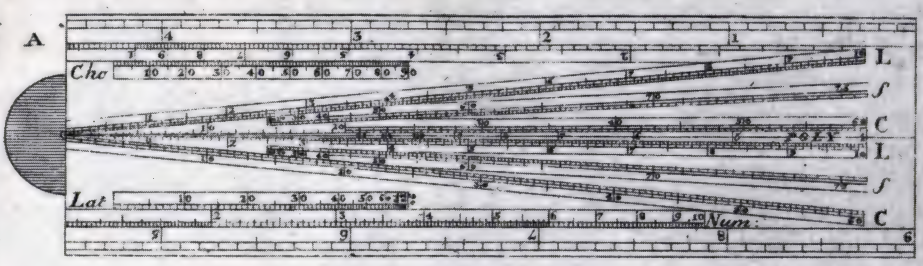

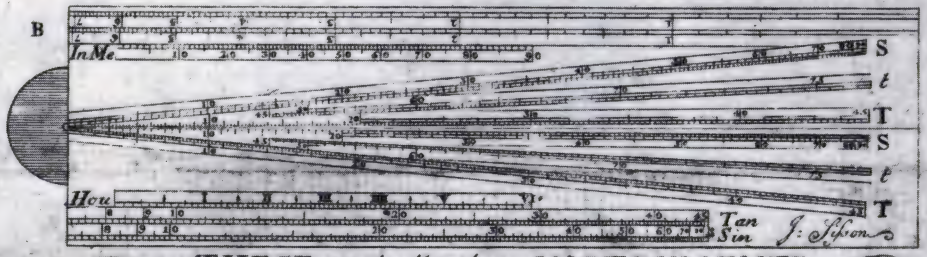

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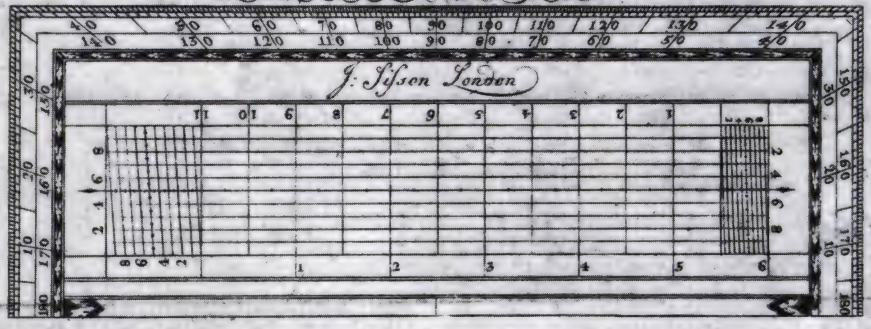
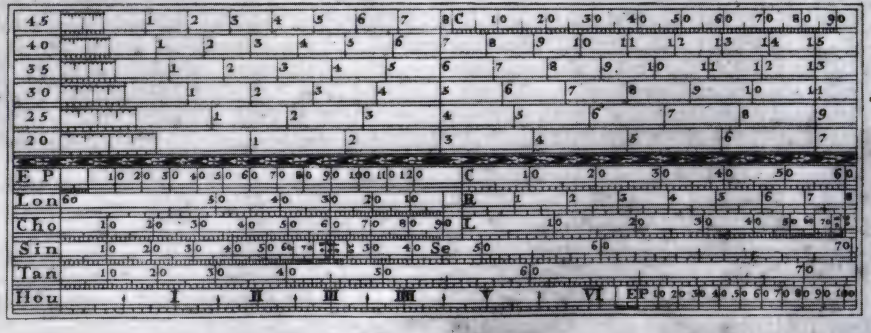
The Prince of Wales





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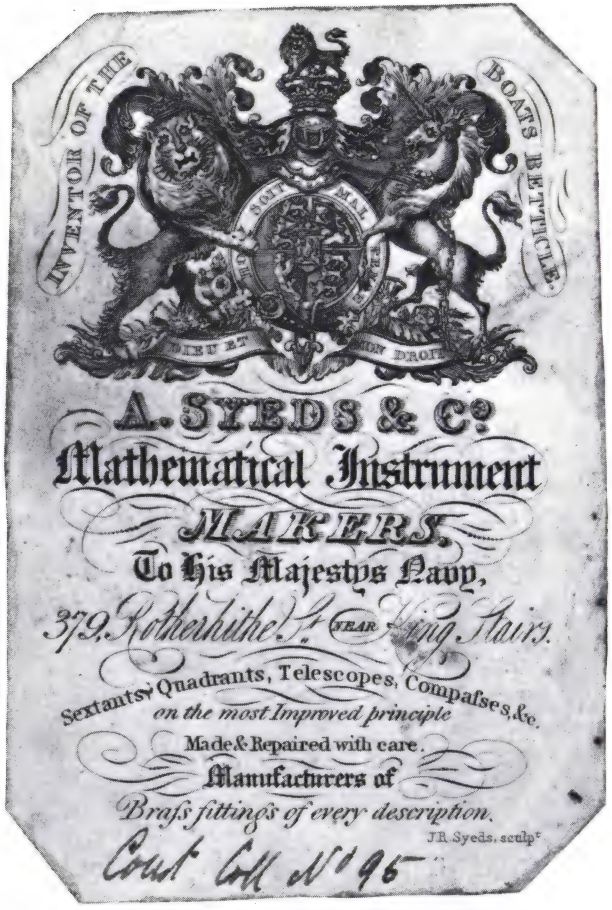

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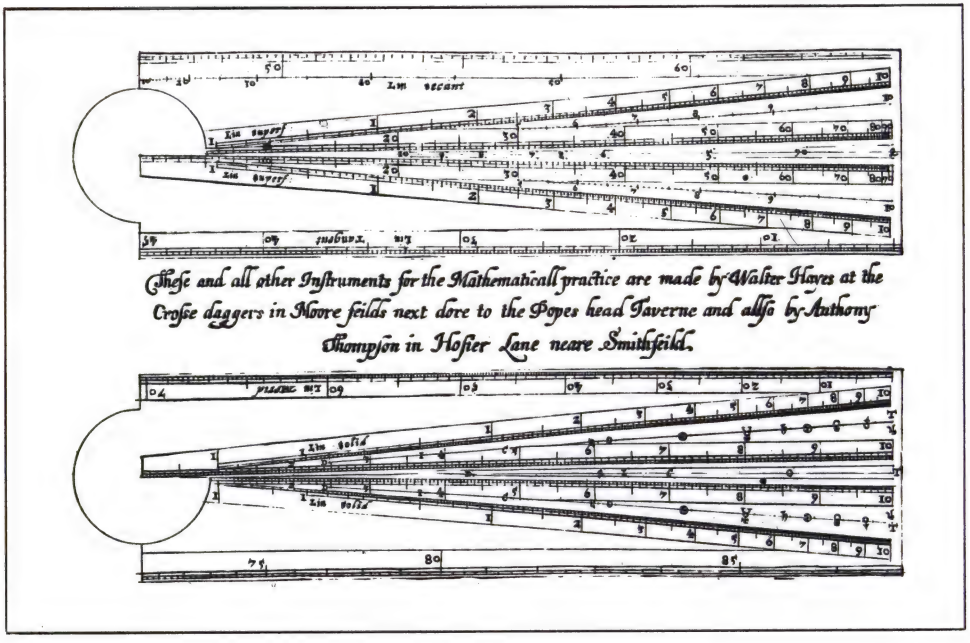
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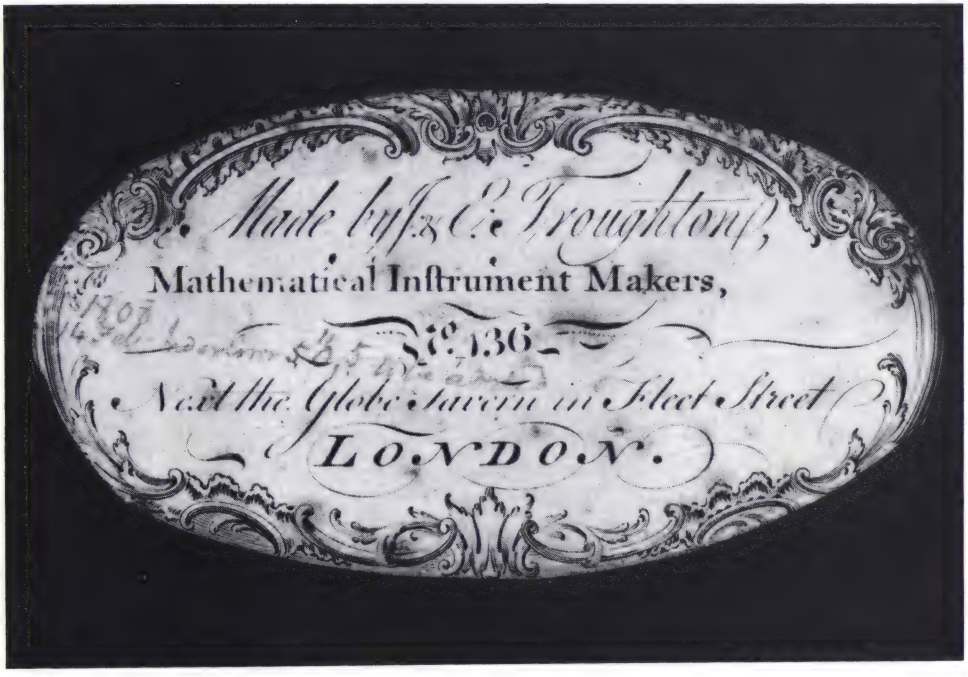

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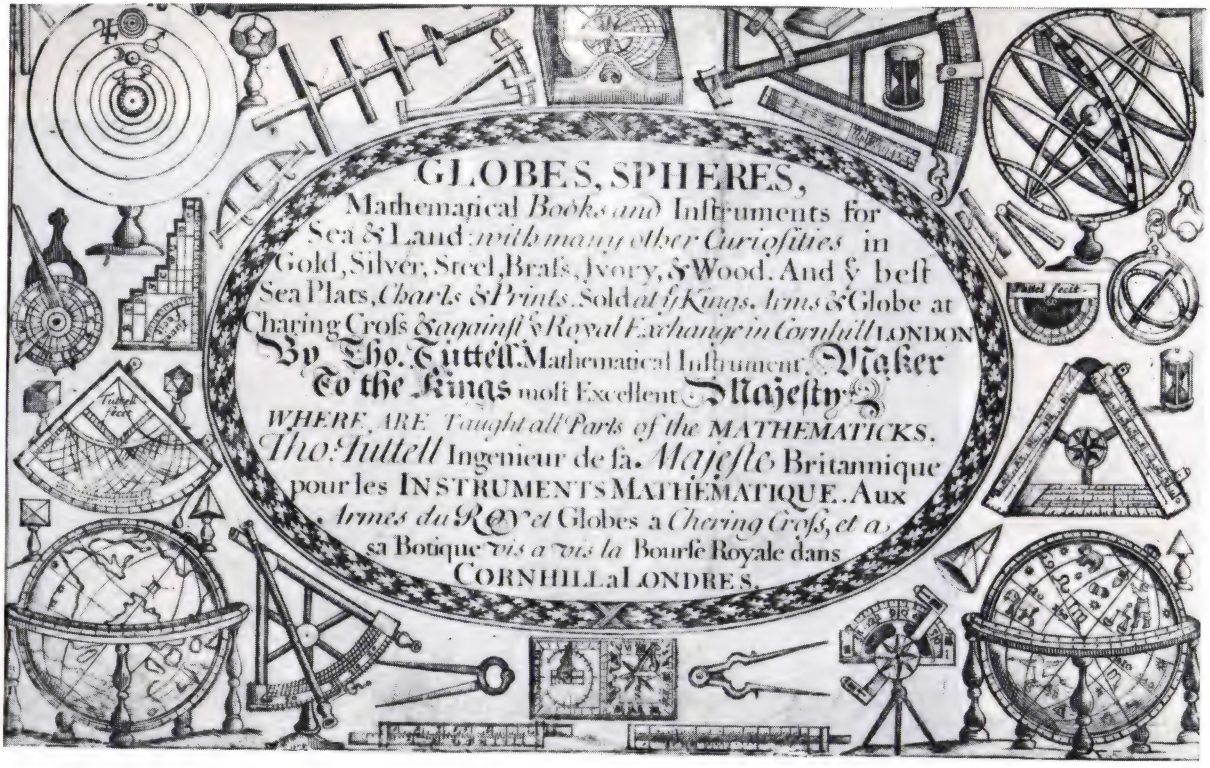
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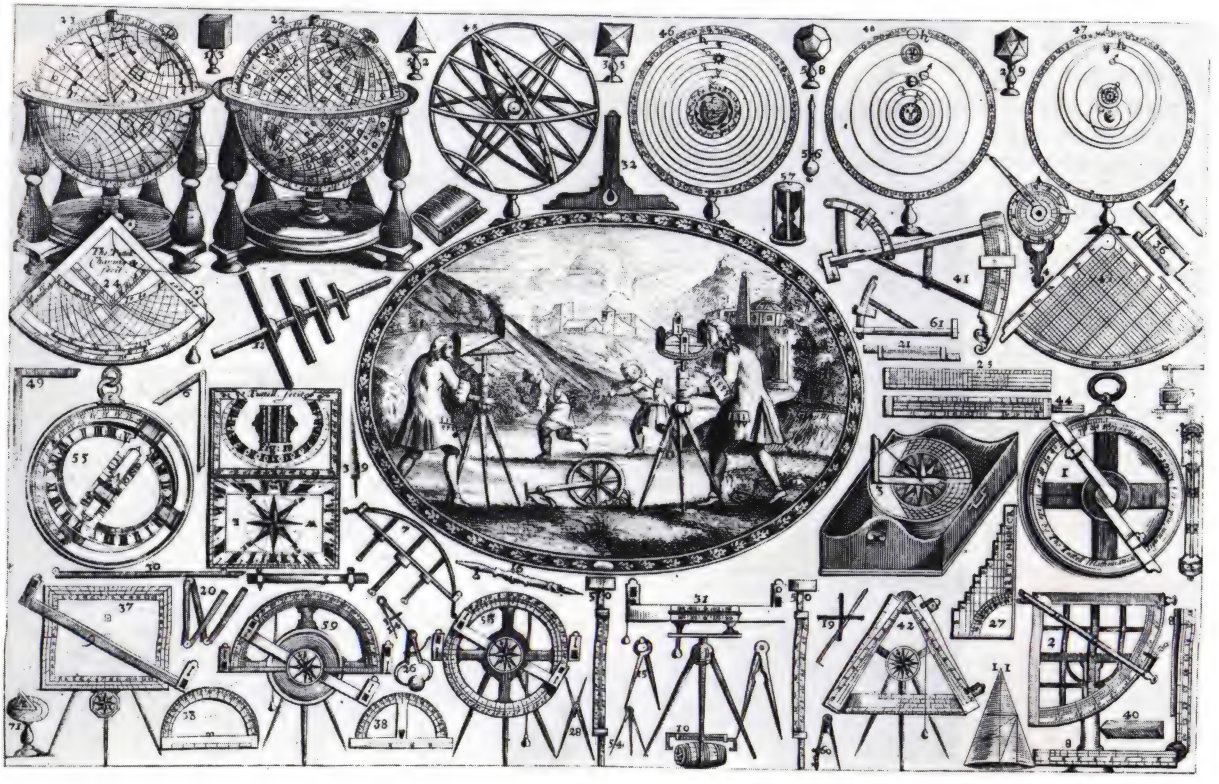

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52 Thomas Tuttell
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53 Thomas Tuttell
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54 Thomas Tuttell
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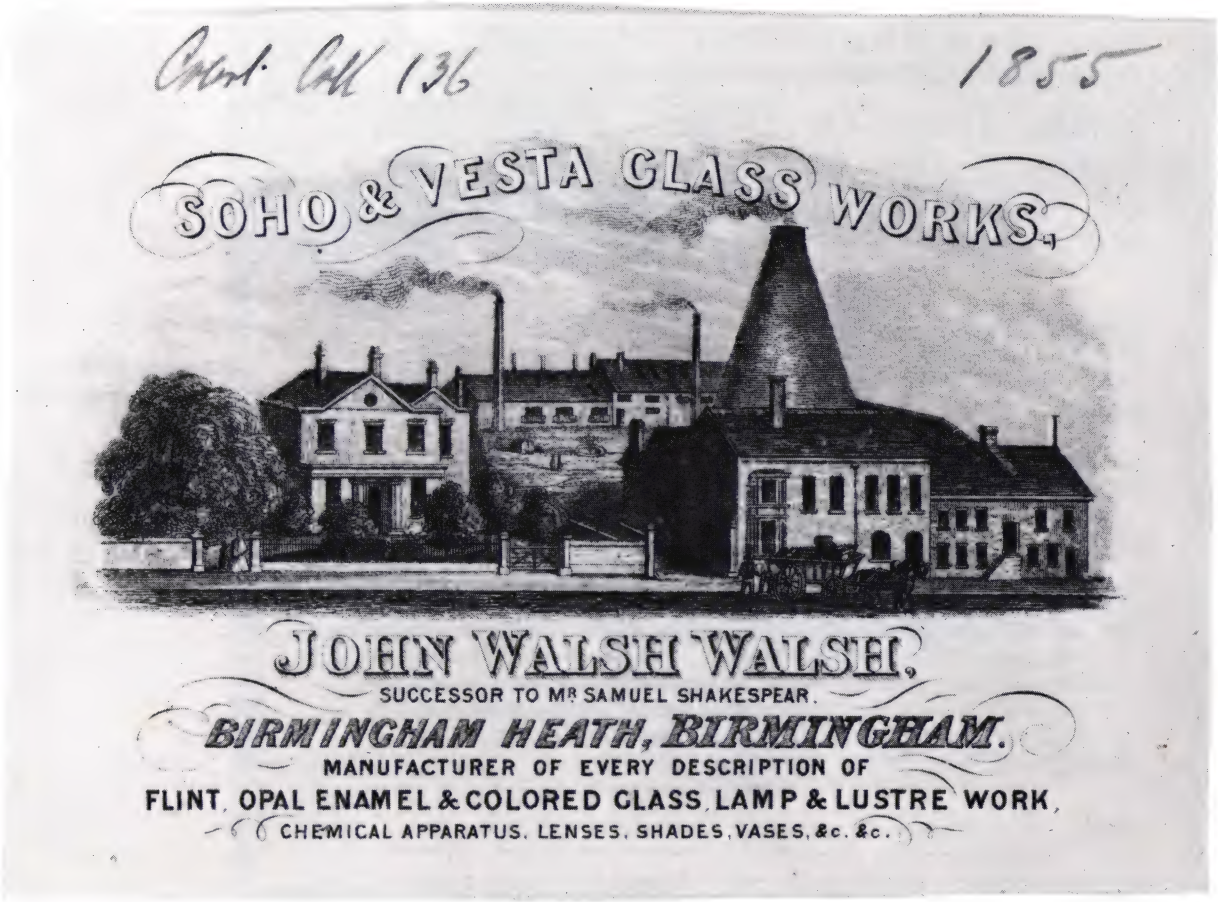
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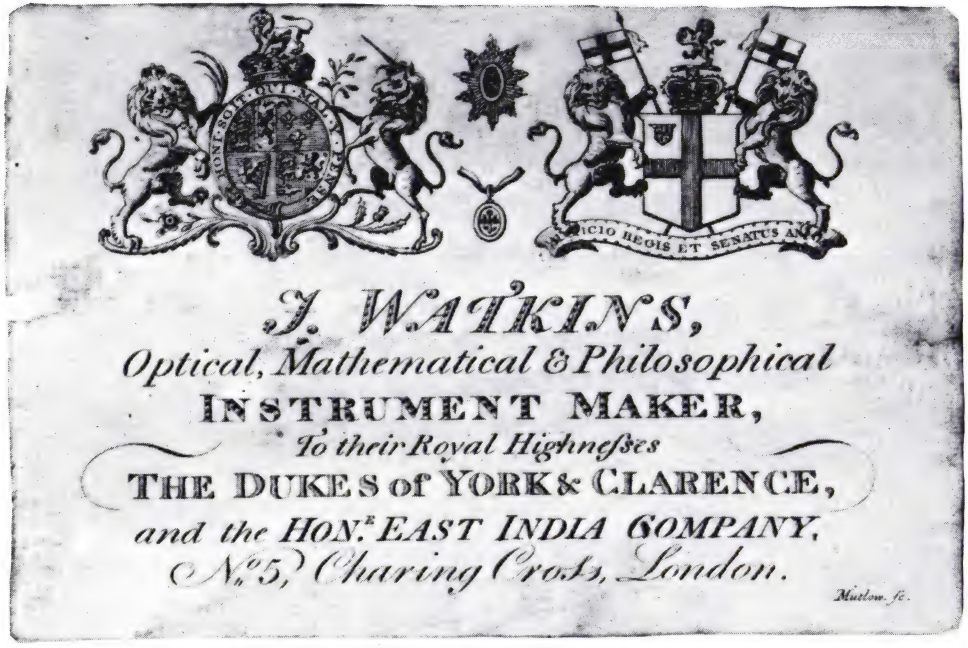

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56 J. Watkins
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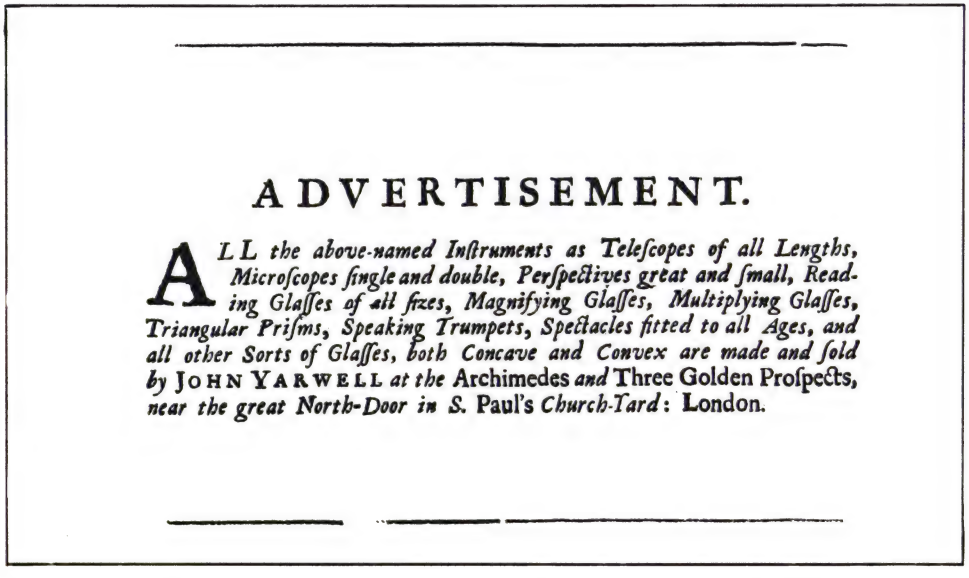
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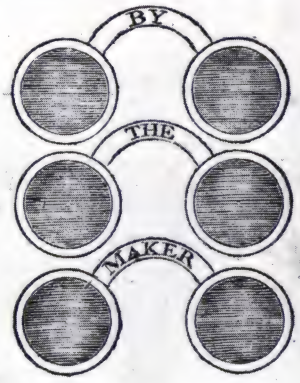

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60 John Yarwell
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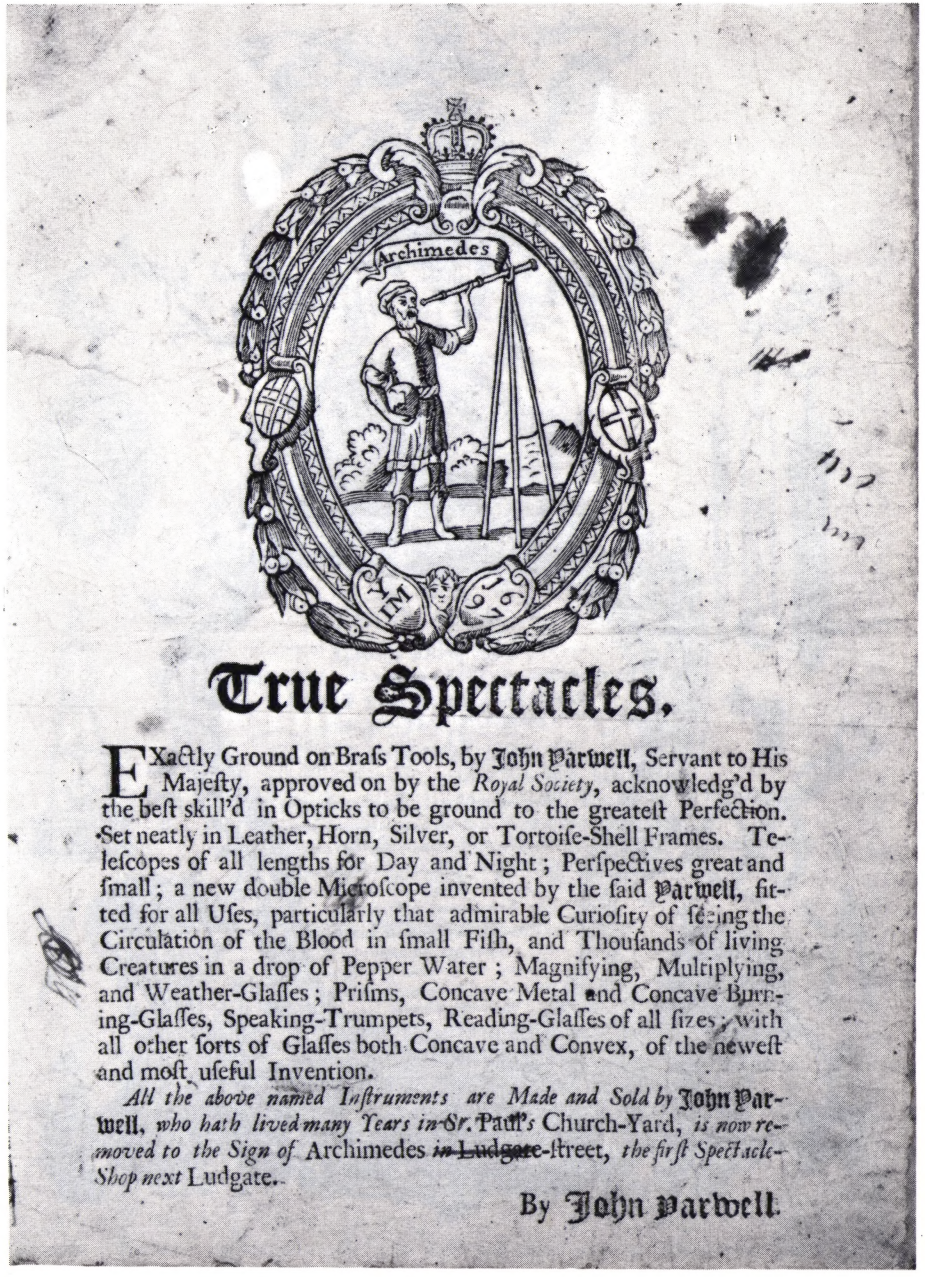

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By John Yarwell.

61 John Webb
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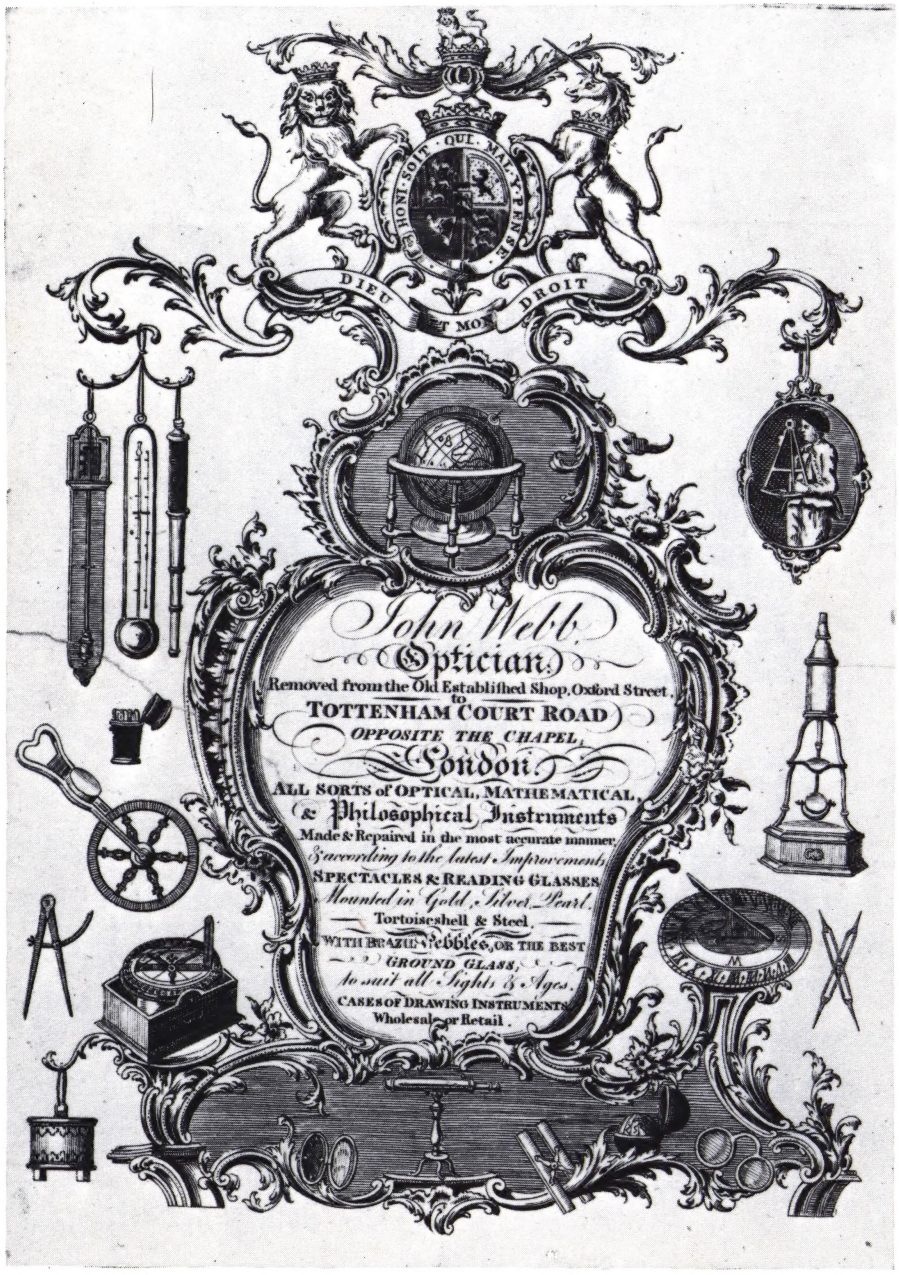
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